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#### THE REAL SIDE OF MUSIC TEACHING.

descended the great hill np which he has previously stand people, and treat them rightly. at once a missionary and a general.

If he is a poor missionary, he will have poor success surroundings in which they are placed. in raising an army; and, if a poor general, his army will Take the successful piano and organ agent as a type of amuse themselves and torture the entire community I desert him and become scattered, and he will, in time, basiness shrewdness and thrift. One night finds him in It is a part of the teacher's mission to gradually intro-

Baptist missionary should go among the Pawnees, and the first thing he should do would be to reat away around and over it all. In a few years all becomes the first thing he should do would be to reat away away on one of the principal thoroughfares, and, having hung up, pers," with vocal accompaniment, to do the rest. No are pure and sweet, and beautiful fish of various kinds in a conspicuous place, his certificate of ordination and matter if he does have to sleep in the loft that night, and flash up from its crystalline depths. Its shores are the diploma from his alma mater, send out his circular to in the morning wash at the horse-trough, wipe his face covered with bright sand and pebbles and shells. A new the chiefs and their families that he was prepared to on his bandana and comb his hair with his fingers, stand- vegetation has sprung up around, and, instead of the convert them, and that his office would be open, between ing before the mirror of his vivid imagination to arrange dreary croaking of frogs, one hears the twittering of the hours of 9 A.M. to 4 P.M., to all resident Indians who his cravat. It is all right: he is a brave man. He gets birds, as they flit among the trees and over the rippling desired to receive the sacrament. Ought he to he another meal of cakes and bacon, and bids his dear waves. astonished if no one came the first day, except, per friends a pleasant good bye; but he carries a little piece The pool that once was fed hy rains, and evaporated chance, some little arrow-shooters, who poked their heads of paper, called in legal parlance a chattel mortgage, only malarial poison, now is supplied by a deep and in at the door and interrupted his devotions with an which means the sale of his instrument on good security. living spring, and sends through the vales beyond a merry

with the music teacher. He is frequently called to a field gets a final whack at the broker himself, and the thing is part of the body possesses.

one way open: he must let himself down among the at cost." people, and win their interest and confidence.

view of the matter and go in to win, using all the tact and with the outside world. policy he can command. We know it is hard, after having been four years in the conservatory in the centre tion of suitable and pleasing music. This becomes Jess of the metropolis, with a head full of Bach fugues and difficult the farther one goes and the more he knows. Beethoven sonatas, and our ears ringing with the trills of It is often advisable in this, as in everything else, to Patti and the instrumentation of Berlioz, to come down compromise the matter in a measure, or seem to do so. and candidly admit that "Comin' through the Rye" is If a pupil has a passion for silvery waves, and is any way a real nice tune, and at the same time clap our hands in up to it technically, why it is often expedient to satisfy

the same toilsome journey, under his leadership. He is sion, simply because they do not have the faculty of let each successive "theme" was reiterated. ting themselves down, and of adapting themselves to the How many cornet, trombone and harmonica fiends

high ideal, must yet be ahle to so magnify it as to bring steader by going over his acres and praising his prospects, a while, and the old style will lose its charm. the whiln the range of his disciples' wition, that they also miss may be hold its glory, and be inspired by its promise. The music teacher is in much the same relation to the hacon. At the opportune moment, when the dishes are from the hottom of a muddy, stagnant pool. At first general public that the missionary is to the savage; for done away, he opens up that wonderful, strange box, and the pond is covered with slime. Its waters are filled with the majority of people are as ignorant of music as the displays to the half-dozen embryo grangers, who are frogs and lizards and snakes. Its shores are muddy eagerly watching on all sides, and on all tiptoes, the and miasmatic. Rank grasses grow about the borders, Let us assume a case for comparison: Suppose a latest improved organ, with two full sets of reeds, and and there is an atmosphere of depression, death and de-

The next evening may find him enseonced in the brook, which dances and rushes, and gurgles in glee, as Suppose, further, for illustration, that he was a real elegant drawing room, applauding the performance of it hurries onward toward the sea. patient missionary, as the model missionary should be, the exquisite young heiress, the broker's daughter, repatient missionary, as the model missionary and the gretting, however, that her talent has had so little chance and, instead of advertising, went out and visited the gretting, however, that her talent has had so little chance and instead or and other in the properly develop itself, owing to the antiquated piano not merely because the tips of the fingers, besides adjacent tents from persament are people of come in a congenity of the people of the p ough he to fly into a passion necession conneces our conn his some timid squaw objected to having her papoose surroundings are a little more pleasant. But he hangs body, possess in addition an unusual supply of cerbecause of the property of the Ought he not to be willing to stop and reason over the points of his faith as he believed them to be true, and the mistress is won, and the "Professor" gets an invitation of the wrist, gradually show the matter up to the unsophisticated ion to dinner. This is the winning card. He has his elbow and arm, give the hand the power of scassage, and convert him, if possible? So it is precisely beautiful Steinway grand moved in that day. He now commodating itself to surfaces which no other

where little or nothing is known of music. There is but done. A clean thousand in cash, "taking the old one

Is there not, in this illustration of actual business life, They are not bound to support, or even to recognize, some points worth adopting in the professional life? We him. They may even believe him to be an unnecessary may call it lobbyism, or diplomacy, or deception, or what luxnry, and feel it their duty to "eat him alive." It makes we like, but we must admit that we are doing it every day no difference how much it hurts, he must take a practical and all the time, if we are in any business connected at all

apparent delight to hear Jake fiddle the "Rocky Roads her desires, and let her emhark on the silvery waves for a season. She will always relent at the last two pages, There is a wide and, if one attempts to jnmp it, an and wish she had stayed on the shore. Her little boatimpassable gulf between common music and classical ing escapade will not harm her in the least. Not even music. This abyss must be bridged over, and the pro- if she capsizes a few times. It may be made an effective gression must be made gradually, almost insensibly. lesson in many ways. Surely, the same exertion is re-Teachers err in exactly two ways: one in staying with quired to paddle across a mill-dam as over the Hudson. pupils of low tastes and catering continually to their tastes, The difference lies in the scenery. But what does the and never striving to elevate their ideal of art; the other, average pupil know of the picturesque? He has not in placing the ideal too high and trying to rush up to it too learned to be satisted of monotony and long for a variety, rapidly. One cannot catch all fish with the same bait, We have known a fellow to sit evening after evening and The music teacher is an artist who has voluntarily and it certainly requires a world of experience to under-play a common cadence, in one key, on the piano, over and over for hours at a time, while the expression of his climbed, in order to enlist a youthful army to undertake Many teachers fail to make the most of their profes countenance denoted the most intense satisfaction, as

there are, living in adjacent blocks, who thus innocently

a prairie cabin. He has made himself acquainted, and duce a new class of music to the attention of his pupils The teacher, while he must ever preserve the same ingratiated himself into the confidence of the home and his patrons, and they will fall into admiring it after

### MENDELSSOHN'S MUSIC FOR PIANISTS.

Some months ago, there appeared in The ETUDE an article signed "Old Maid," in which, besides challenging some of the opinions previously expressed by an editor of that journal, the writer made some pointed insohu's plano forte music by the planists and thinkers of cause the teacher the greatest possible annoyance, since our dsy. She asked that a reply be made through the their native ideals are placed so very low. columns of THE ETUDE, by some one of its editors. Having watched in vain for such an answer, I undertake it, in lieu of any other champion, and will cast down the gaunt test at once of saying that I agree assolutely and heartily with the favorable opinion of Mendelssohn's piano music expressed by the writer in question. In discussion with the bags instructor which she carries under her arm, understand?" We understanded. reply to "Old Maid" I would say that the general opinion among leading musicians to-day, in reference to all One, the polite young organ agent made her a present of Mendelssohn's work, seems to be unfriendly, or at hest, it when her father purchased the organ; another, she indifferent and natronizing.

are seldom heard here in concerts, either of artists or fifteenth page. and the of concerts, states of artists or a second page.

It is a second from the second page of the second izes all her performances; but the only one of our on the piano for a while to improve her technic. "And passion for opera comique, the Newport and Progressive theorists and composers who is a stanch, out and out what is that?" . "That means to limber up your fingers," Euchre, and what not. Her tongue flies almost with elec-Mendelssohnian is Prof. Chas. Baetens, of the College we explain half apologetically, for using such large words. trie rapidity. Mamma is preparing a grand reception of Music, while John Broeckhoren and Otto Singer are She says she never tried a pie-ano, but she is willing. We and the Elite Cluh are to give a ball; and young and

delssohn's imperishable masterpiece, "The Rondo Cap- fashion. riccioso," in company with George Magrath, one of Cin-Having explained briefly that this pedal exertion is Mamma wants her accomplished, to be sure. Both Charcinnati's foremost pianists, I was amazed to bear him unnecessary, she is at last ready to "take her lesson." lie and Willie adore music. Charlie goes into raptures say, "I don't care much for that composition; it is too The hour flies by. She has assimilated a couple of two- over the lancers, but Willie adores Strauss above every languishing and sentimental." "Well, well!" I thought, finger exercises. What shall we do? The next pupil body. "By the way, Professor, have you heard the "de gustibus non disputandum." How any sane man, is waiting. We arise. "Is that all? am I done?" And latest opera by Jacobski, called—let me see, I can't woman or child can find the delicions melody, and broad, such an imploring look and such a sigh of disappoint quite recollect—but there are two scenes in that that are clear harmony of the introduction, or the sparkling play-ment as she meekly murmurs, "Excuss me, but I didn't just too utterly adorable for anything. One is the dream fulness and dignified grace of the two themes of the Rondo either languishing, or trivial, or too sweet, or indeed anything hut ideal music in every respect, trans- or shall we smile? What shall we do? And a harder trial still." cends my comprehension. The "Songs Without Words" comes when, at the close of the term, this same illiterate These are the tough cases,—the cases that seem hope of Mendelssohn are admirable compositions, written in specimen asks for a certificate to teach. a form, which, if not entirely novel, has certainly as much of that precious element, originality, as you will find in any compositions throughout the range of piano literature : they are, indeed, the best possible introduction to classical form which a student can receive. Many of them are admirable technical studies. No. 1, for if she cannot learn a couple of pieces to please or to ap. ing, or that he has been transported to New Zealand. singing with running accompaniment; No. 3, for wrist; pease her domestic lord. Sometimes the lord is opposed No. 4, for broad chords and small interlaced melodies; to all such nonsense, and the lady must steal her musical he was on some South Sea Island, he would be more sat No. 6, for dreamy tone-color and pedal effects; No. 18, recreation and pay for it out of her allowance. Our finfor thumb study; No. 19, for the fifth and fourth fingers gers are too few to enumerate the actual cases of this kind lighted if the parrot learn a single sentence to repea of the right hand : No. 30, for short arpeggios and skips ; that have fallen under our observation. breathless agility, besides many others equally beautiful. The lady that has sufficient ambition and grit to run auch impossible? It is, I believe, not the custom of all piano teachers, but I a hazard and make such a sacrifice has usually some delssohn's "Songs Without Words" at a certain part of able, interesting student. But from the very nature of my piano enrriculum. Certainly, in no sense am I the her surroundings she is forced to limit her practice, and matic music by Richard Wagner; hut is it not just as well a wife who has been in the kitchen and garden scrnbbing ment of art, etc., etc. to stop and ask ourselves whether our constant culture of and digging for a quarter of a century, trying to aid in

inforceation, drugged musers and "sixths," up, and the next day the friendly old pair, arrayed in the kosky. colized immest with "augmented must and the state of the sevenths" and gormandized upon the prick; "leading: training up of Mary's dusty musical memories" and done seventh, may pare liaking of tonic triad and donish and seventh may savor of "angar-water." One is reminded of that confirmed tippler who laid a heary wager that he could recognize any beverage blindfolder. He you are not of practices, and your fingers are what we was taken up. The first he quickly pronounced a good was a first of the property of the pronounced a good was taken up. The first he quickly pronounced a good was the pronounced a good was the

sherry, so on through a long gamnt; but at last he hesitated, tried again, and gave it up. It was water. JOHN S. VAN CLEVE.

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has already taken a term or so in it with her home In Cincinnati we have a musical microcosm, including teacher. In response to our inquiries as to her advanceall the shades of opinion. Mendelsonn's compositions ment, she replies confidently that she has taken to the opening scene of the tregic comedy known as cap setting.

are forced to believe the first part of her assertion when dashing Charlie is to be the cavalier at one place, and After once listening to a refined performance of Menshe sits down and begins to pump the pedals organ the aristocratic, superb catch, Willie, is to officiate as

#### OT ASS IT

#### THE MARRIED LADY,

make it an invariable rule to require the study of Men- sense and enthusiasm for art, and ofttimes makes an amito stop and sak ourselves whether our constant cutture of a diagring for a quarter of a century, trying to aid in claborate disnonance may not he a retrogression to war keeping the ship alload, and, at last, through patient and barbarism? May it not be an approach to the attact of the constant of the constant of the combined industry, prosperity has insured the remaining the finest thing in the concert, when our ears begin to reject all pure and direct harmonization as vapid; 1. Bach, 2. Handel, 3. Havin, 4. Muzaut, 5. Beathoven, 6. Mendelacohia, 7. Von Wober, 8. Schulmer, 10. Glospin, 11. Bach, 12. Beathoven, 6. Mendelacohia, 7. Von Wober, 8. Schulmer, 10. Choopin, 11. Bach, 12. Beathowen, 10. Beathowen, 10. Choopin, 11. Bach, 12. Beathowen, 10. Choopin, 11. Bach, 12. Beathowen, 10. Choopin, 11. Bach, 12. Beathowen, 1

brand of heer, the next was champagne, then port and will doubtless improve by use. Be content to practice a deep breathing and the various pitches to improve your voice, and in a short time Mr. Jonathan will have the satisfaction"-"Young man," she interrupts, sharply," I've been using scales for the last twenty years, weighing everything brought into the house, from a pound of coffee to a quarter of mutton. I tell you I am tired of scales. These are three classes of pupils everywhere, that And as for deep breathing, why I've nearly exhausted leads down to the spring below the honse. I've done the same thing a hundred times pitching hay when Jonathan was short of help. Jonathan would object, I know, to these things; for he says I shall not work any more outside of tending to the dairy and housework, and he

#### CLASS III

#### THE POARDING-SCHOOL MISS.

Who has just graduated and returned home to make her escort (a la dude) the next time; and so she rattles along.

less, and, indeed, usually are hopeless. There is little use in racking one's brains to find ways to hold such pnpils,-that is, if other pupils can be obtained, and they can. A teacher to be successful must select such pupils as will not absolutely shock him to such a degree that he Who is about to embark on the musical sea just to "see" begins to suspect he has lost his identity, that he is dream

If one could have philosophy enough to just feel that each week. Why can't we get our ideas down, away No. 34, for fingering in close chromatic positions and These cases are not hard to manage for the teacher, down, and be content with what we get, since more is D. DEF. B.

#### A REVIEW LESSON

LET the teacher ask his pupils what they know of the enemy of progress in art, nor would I in the slightest then she often feels rushed to "get along faster" owing to piano compositions of the following composers. What of minify the vast services rendered to orchestral and dra-her rapidly advancing age. Here, though, is the case of their biography; what each represents in the develop-

#### CLASSIC

### MUSICAL ART COMPANY.

WE have identified ourselves with the interest of the above Company, which has been recently reorganized. from the office of THE ETUDE.

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musical profession.

benefit of teachers and students.

knowledge, perseverance and method to describe and explain minutely all that is needed to guide the student
perienced and less fortunately attnated. It is for such
one constituency, we will present more of the writings point minusity air that is needed to guide the student that the new department will be opened. In conducting of these modern theorists. by vocal or instrumental technique, to mature judgment, it we shall not consider it a fatal element in a question executive ability and independence of conception in the proposed that it is old; on the contrary, the old ques-

strennously insisted upon by those who have spent faithful years of ardnous study, that professional musicians and teachers ahould be capable and well informed, to stem the flood of mischief done through those who, uprepared, invade the field legitimately belonging to the trained teacher merely for the purpose of making a living. But where (arises the grave question) are these unprepared invade the field legitimately belonging to the trained teacher merely for the purpose of making a living. But where (arises the grave question) are thousands who cannot leave their homes to study with distinguished, but, alsa it loo costly teachers. To these and to all others Mr. Goldbeck comes to lend them, most effectually, a helping hand, with a work which may be aid to be a "labor of love." We feel very sure that such "love" on the part of the author will be rewarded by the profession, high and low, from a variety of motives. The Ertors has, from the start, taken a similar stand, and gladly joins hands, efforts and the former has in the past answered some questions converting that the distributions of love." We feel very sure that such "love" on the part of the author will be rewarded by the friendship of the profession, high and low, from a variety of motives. The Ertors has, from the start, taken a similar stand, and gladly joins hands, efforts and

Company, of which Mr. S. B. Milla, the famous pianist, own resources and powers are exhausted, and then frame MAN is so variously and miraculously organized is the President and our honored Dr. William Mason one the inquiry in plain and definite language. of the Trustees. We wish Mr. Goldbeck auccess in a cause which is also peculiarly our own, and herewith most cordially give it our earnest "God-speed."

within itself .- EHLERT.

#### A NEW DEPARTMENT IN THE ETUDE.

into our own. We will give them equal prominence with a superior our own. The advertisement of the Company on page 32 answer require an amount of space not properly to be harmony. We advise our readers, and teachers in parour own. The advertisement of the company on page so will give full information regarding incorporation, etc. given them in a correspondent answering column. To dicular, to acquaint themselves with the results of the rewill give full information regarding incorporation, etc. Given them in a correspondent answering commit. To ticular, to acquaint themselves with the results of the reactions who desire to invest in a share or a number of shares are under no risk whatever. The shares informal discussions for various small questions belonging mann and others. The main features or drift of these ber of shares are under no risk whatever. The shares are convertible at any time into music published by the Company or our own publications. With our patrons, the investment is nearly the same as credit on eccount of the dividends for the amount invested, with the benefit of the dividends for the amount invested, with the benefit of the dividends of the divide tor the amount invested, with the benefit of the dividends that the Company may declare from time to time. The good taste and truth. Into this department will be put not time to present the subject as is here given in Tag. shares can be obtained from us, which are sent direct shares can be obtained from us, which are sent direct from the office of The Errors.

Perhaps the greatest inducement we offer to music Perhaps the greatest inducement we offer to music teachers to hecome shareholders is the fact that both the Company's publications and our own will be sold at a large discount to all those holding shares. A list of prices now published by the Company is printed in this issue.

World, 'b has had its influence in determining the selection of the modern theories are based on the appearance of the modern theories of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance of the modern theories are based on the appearance o ow published by the Company is printed in this issue.

In information can be had by writing to us.

Some four years ago, Mr. Robert Goldbeck issued the template, but an example of causing two blades of grass

which goes downward as well as upward, and that the some tour years ago, ar. Robert Gotobeck issued the first number of the "Musical Art Publications," which at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the at once met with a cordial reception on the part of the atom to a large and constantly widening circle of teachers and readers. Those We urge most earnestly on all teachers to read this The object was to place on record, in printed books to the duta, owing to his peculiar experience as journalist and music, the three greatening courses, as he happily termed them, of piano, the voice and harmony, for the metropolitan cities in America, he has at command a "Nature of Harmony," by Riemann, and then by "New lt is not too much to say that Mr. Goldheck undertook very large store of information about music, and a wide Lessons in Harmony," by Fillmore, which is now almost then a great and difficult task, one requiring much knowledge, perseverance and method to describe and exby vocal or instrumental technique, to mature particular, executive ability and independence of conception in the interpretation of masic.

A series of books which embody such instruction and A series of books which embody such instruction and training will command recognition, since it cannot be denied that an intelligible and instructive arterord, such as Mr. Goldbeck's work has so for proved to be, is one of the urgent necessities of the present times, in which are more greenful and sound masical education is imperatively needed, not alone for a healthier and speedler progress of the art misscal, but alone were produced to the present times, in which carried years to elevate and strengthen those who profess to teach it.

There is everywhere a demand, very naturally most strengthen those who profess to teach it.

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There is everywhere a demand, very naturally most strengthen those who profess to teach it.

There is everywhere a demand, very naturally most strengthen the professional musicians of the professional musicians of

taken a similar stand, and gladly joins hands, efforts and initials of the writer will be attached to the answers. forces in a cause which is entirely sympathetic and of a Where no initials appear, the managing editor will

Architecture has been termed frozen music, and the Gothic-pointed arch may be called a frozen when the last grade will be ready. Until then ness.—Rev. Chauncey Giles. and the Gothic-pointed arch may be called a trozen figure; no art form embraces such consciousness they can be purchased for \$2.50 per set, 25 cents

THE teacher can only teach that pupil who teaches himself.—H. S. V. extra for mailing.

In this issue we print the essay of J. C. Fillmore on 'The Practical Value of Certain Modern Theories Re specting the Science of Harmony." For clearness and conciseness of diction, this essay is a model literary pro-With the next issue of The Etude, we will commence duction. The subject matter is of great interest to all This enterprise will in no way interfere with our present work. The publications of the Company will be merged into our own. We will give them equal prominence with many control of the company will be merged into our own. We will give them equal prominence with many control our own. We will give them equal prominence with many control our own.

we urge most earnestly on all teachers to resul this.

The object was to place on record, in printed books who know Mr. Mathews, however, do not need to be essay, which does not require an extended knowledge of

kindred nature.

usually be the responsible one.

With this object in view the editor of The Erups has accepted the Vice-Presidency of the Munical Art Stock will seek assistance through The Erups only when their on truth of character and gracefulness of form.

that he can be acted upon by all forces and receive delight in all forms. He is an instrument with an infinite number of pipes and strings to be THE offer to send the set of "The Musician," played upon by all forces in the material and 1 HE oner to send the set of "The Musician, spiritual worlds, to vibrate in unison with them (6 vols.) will hold good till the 28th of February, and with each other and their harmony is happi-

J. C. FILLMORE, The epoch of the Netherlands, about 1400 to 1600.

Writt the beginning of the fifteenth century came a new and very important expectation and early which changed the whole aspect of missio—the epoch of the development and early which changed the whole aspect of missio—the science and art of phyphony. It is commonly called the epoch of the Netherlanders, because Netherland composers took the most prome, and the properties of the Netherlanders, because Netherland composers took the most prome, and the properties of the Netherlanders, because Netherland composers took the most prome, inent part in the macanism to the science of the Netherlanders, because Netherland composers took the most prome, and the properties of the Netherlanders, because Netherland composers took the most prome, and the properties of the Netherlanders, because Netherland composers took the most prome properties. Although the properties of the Netherlanders, because Netherland composers took the most prome properties. Although the properties of the Netherlanders, because Netherland composers took the next properties of the Netherlanders, because Netherland composers took the next properties. Although the next properties of the Netherlanders, because Netherland composers took the next properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point properties of the Netherlanders was not been many point properties. The Netherlanders was not been many point because Netherland composers took the most prominent part in the movement, and were the most vances on the latter's work in the direction of emorprominent figures in the musical world for more tional expression. He was perhaps not greatly masters is Adrian Willacet (pron. Willart), the

thoroughly hamiline. Those who now entered upon this task were explorers, in spite of all that had been done since Huchild, that it to say, in the past five hundred years. It is continuously the past five hundred years. It is probably was crude; the means of securing unity, variety, symmetry, contrast, climax, the securing unity, variety, symmetry, contrast, climax, the securing unity, variety of a beaufful work of art, weentide lements of a beaufful work of art, weentide lements of a beaufful work of art, weentide lements of the securing unity and the securing unity are the securing unity, variety, symmetry, contrast, climax, the securing unity, variety, symmetry, contrast, climax, the securing unity variety is a securing unity was crude; the securing unity was crude and the second and the securing unity was crude and the second and the second unity and the second unity and the second unity to the second unity to the unity to the

William Dufny, a Belgian. His contrapuntal emotional character of the words. This indiffers are the oldest of the kind preserved in ence to truthfulness of musical expression was the archives of the papel Chappel at Rome, where carried to the extreme of grotesqueness. In the law was a tenor singer. Both in the progression of countrapuntal masses not only were secular melast voices and in the treatment of his harmonics odies employed as counter-subjects to the Gregorian form of the contrapuncation of the proposition of the contrapuncation of the he was a tenor sugger. Dots in me progression to his voices and in the treatment of his harmonic she is said to have made marked favances on his prodecessors, and paved the way for a sharpened perception of what is natural and firm in-sog, but the words of these secular songs for the secular songs were also retained and were invented on the secular songs for the secular s by an exact repetution or ison at an emercial of God, who takest away the sins of the world "n an octave fourth, fifth or grain as one other interval, the imitative melody beginning some time after the original. These cannot expect the called some pursued the other. The respective positions of the world applied to a more elaborate type of composition. Long way behind what we are now accustomed to make the composition of the com

representative of the second period of this great that of the painters of the tourteenth and inteenth especially and the foundation hid by Dufay, centuries, who painted themselves and their family in Munich, where he was "capellmeister" or Munich, where he was "capellmeister" or director of church was "capellmeister" or a complete the way to be a compl representative of the second period of this great report. He built on the foundation laid by Duffay. His canons are more elaborate. Duffs had written them oldered the property of the contraction of the contract of the first work was done that the contraction of the first work was done to have fell such themselves and the frantial and the Holy Child. They can be contracted to have fell such things not as profans also credite notes the interest and the frantial contraction of double counterpoint. He wrote a moteste in hittivity as where the was "capellimister" or director of church music. He was a genuine parts. It is essentially supported that only six, or perhaptine, of these were written out, the others being canonic infinite not, the other being canonic infinite not the other being canonic infinite not

LESSONS IN MUSICAL HISTORY. of calculation. It was his task as well as that of ciated. At least, he sometimes did this. With

prominent figures in the musical world for more tional expression. He was perhaps not greatly missiers is Aurian Filmer's (pron. Villart), the Lafians and others, who had learned of them, and technical side, although he carried the art of very wise addept influence and exhibits of shared their supremacy, and with the death of counterpoints far that it may fairly be said to have He was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music in St. Mark's, a light of the was director of music was director of was director of music was director of was direct shared their supremacy, and with the death of Orlandus Lassus, in 1505, they disappear from the pages of history.

As we have already seen, the ground had been prepared for them by the investion and gradual improvement of an adequate system for notation, and by numerous composers, who and tried their hand at "discant." Harmonic hard their hand at "discant." Harmonic hard their hand at "discant." Harmonic hard have now "does not have a great admirer of his, who said of him or alled, was not have the music and world with the death of his mater about the hand at "discant." Harmonic hard their hand at "discant," Harmonic hard their hand at "discant," Harmonic hard their hand at "discant," Harmonic hard their hand at "discant, "Harmonic hard their hand at "discant," Harmonic hard their hand at "discant, "Harmonic hard their hand at "discant," Harmonic hard their hand at "discant," Harmonic hard their hand at "discant, "Harmonic hard their hand at "discant," Harmonic hard their hand at "discant, "Harmonic hard their hand at "discant," Harmonic hard their hand at "discant, "Harmonic hard their hand the harmonic harmoni tive elements had to wait until the technic of and science of musical relations which others either trate attention on musical expression had been mastered and had become perception of musical relations which others either trate attention on musical expression composition has been mastered and had become perception or musical relations which achieves either trate attention on musical expression.

thoroughly findiliar. Those who now entered could not see or discovered only by the most laboration of the state which is the state of the

PREVAILENT DISTRIBUTABLE OF THE WORDS.
It is thoroughly characteristic of the first three
CYPRIAN DE RORE, 1516-1565.—GIOREFFO ZAR-DUPAX, 1380-1430. (?)

The first distinguished Netherland composer was whatever was paid to suiting the music to the music

OCKENHEM, 1430-1513.

Out in the fourth of his lectures on the history of representative of the second period of this great that of the painters of the fourteenth and fifteenth centuries, who painted themselves and their family in Munich.

ORLANDUS LASSUS, 1520-1595.

The last of the great Netherlanders was Orlanders was Orlanders was Orlanders with the painters of the fourteenth and fifteenth centuries, who painted themselves and their family in Munich street of the great Netherlanders was Orlanders was Orlanders with the painters of the painters of the fourteenth and fifteenth centuries.

other composers in his epoch to develop contra- him the special, peculiar work of the Netherlanders other composers in an epocal to develop contramin the special position of the venture manners puntal technic. This service they rendered most may be said to culminate. Practically, the technic pontal feehale. This service taey renerce most may be said to estimate. Inductionly, the feeh thoroughly and effectually. The intellectual nic of polyphonic composition was complete, world has ever since reaged the benefit of their within the limits of the tonalities of the mediateral Wirth the beginning of the fifteenth century suggested the benefit of their witness the transfer of the mediaval suggested the benefit of their witness the fifteenth century suggested the benefit of their witness the fifteenth century suggested the sugge

long way behind what we are now accustomed to, of course. He was a pioneer, but he was a musician of great ally, so much so that his Nobley and the stands as successful to think of anything rodane in the Red Nose? As Dr. Laughans has pointed was in the domain drever. He was the most control to the Red Nose? As Dr. Laughans has pointed to the first which was a successful to the Red Nose? As Dr. Laughans has pointed to the first which was a successful to the first was a successful to the successful to the first was a successful to the first w

NEW PUBLICATIONS.

Two songs by "S.D. S." 1. THE SECRET OF THE SCA." 2 PARTED.

No. 1 is an and and is in 2 time. The melody is quite head, in oldered quarters, with a restless accompanient in eighths. It is singable and expressive and will find admirers. It is in the key of 0, and its companient in eighths. It is intelled quarters, with a restless accompanient in eighths. It is in the key of 0, and its companient of the secretary of the secret

of the database. — Exercises fermed from the diminished and dominant chords of the seventh for producing independence of the fingers and hands.

Part Third—Exercises in all keys for gaining freedom in executing passages consisting of seales, double-thirds and sixths, appear, os, extense and chords.

Part Fourth.—Exercises formed from two studies in Exercise for the control of th

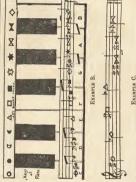
ROMANCE; after a song by Franz Liszt. Transcribed for the piano by Hugo L. Mansfeldt, San Francisco. Published by A. Wallteufel.

Published by A. MALTEUTERIA.
This is a very charming, refined, graceful piano piece.
The song is heautiful, and the arrangement for the pisons shows the hand of an accomplished master. It is difficult, and requires a real artist to do it justice, both as regards to the chemic and interpretation. It will he a valuable addition to the repertory of concert pisnists and of anateurs whose artistic capabilities are equal to its requirements. Song: "APART." Words by S. D. S., Jr. Music hy Samt. T. Strano. Philadelphia, J. E. Dirson & Co.

This is a song of pleasantly sad reminiscence of the past and of hopeful forward-looking into the future. Both verses and music are smooth and singahle, the accompaniment is not difficult, and the song will be an available one for amateur singers and agreeable for par-lor use. The key is A flat and the compass from D below the staff to F, fifth line,

#### THE KINDERGARTEN MUSIC SYSTEM.

We are in receipt of a new work entitled "The Kindergarten Music System Applied as a Piano Method," by music so that the clear of the North Constitution of instruction. It is designed chiefly for heginners, and aims to lighten the lahors of hoth teacher and papil. The art of music has decidedly changed its character thank the constitutional anabors of the A. C. M. In modern times. It is no longer the simple enjoyment is signed their names to hoth teacher and papil. The author assigns seven different shapes, which be terms "Tone Forns," to each of the seven tones, each shape in the sum considered the seven tones, each shape in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree that the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree the tone occasion in the sum can loope to the degree that the sum can loope to the degree the tone occasion that the sum can loope to the degree the tone occasion to the degree that the sum can loope to the degree the tone occasion to the degree that the sum can loope to the degree the tone occasion to the degree that the sum can loope to the degree that the sum can loope to the degree the tone occasion to the degree that the sum can loope to the degree that the sum can loope



We might add that it has been thoroughly and exhausts above use ively examined by competent critics, well up in Kinder garten matters, and received their unqualified approval. Further and a more critical presentation of the subject will be given in some other issue of The Errors, should

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etc., are 25 cents for the quarte odition, and 20 cents for the octavo (large) edition. These offers are made on the basis of strict each, and does not include posting, which is considerable. Never was there more and better music many properties of the considerable. Never was there more and better music can be more. When sent by mail, the collection can be more than the constant of the constant o will send a circular on application.

and orcessers, channer word, 4-hands music, etc., we will be ready on explicitly conferred to Germany, and will be ready to supply all demands by the time this issue is in the hands of the readers.

This edition of Schumann's Works will be received with regard edight by the piano-forts tudent. It is doubtless the great delight by the piano-forts tudent. It is doubtless the Clara Schumann by and elegant edition yet published.

Clara Schumann by and elegant edition yet published creations. She, as no one else, has lived for years in close companionship with the author, and has learned to know the true import of his works. She has had access to the true import of his works. She has had access detruken the work with pare proceedings, etc., and has undwhich a devoted wife and artist only would be capable.

The typography of this edition cannot be excelled.

The typography of this edition cannot be excelled.

The engraving, proof reading, paper and printing are all.

We present it to our readers just as we find it, and it the best skill and experience can make it. These works doubtlessly, in time, will win its way into public favor on its own intrinsic merits.

We might add that it has been thoroughly and exhaust-We might add that it has been thoroughly and exhaust-

## [For THE ETUDE].

of the A. C. M.

I guite agree with those who maintain that
the first step to success is the tasking of the degrees by eery constitutional member of the
grees by end of the constitution of the degrees by end of the constitution of the
this opinion is not intended as existing any
reflection on the professional abilities of any
member; but the commander who says:
"Come on, born," is more sure of success
than the one who says: "Go on, hoys."
Remember, too, it is only "success that use.

Suppose all desirous of taking the Degrees



EXAMPLE A.

The strong point of the system, it is 'claimed, is that sprit of his situations, surrender onselves up to them, the learner, once acquiring a thorough knowledge of each of the Tone forms, so as to know them, by their officets that useh situations can call forth.

EXAMPLE A.

Suppose an uestrous or again; the overest apply now, and let the recreater, from times the learner, once acquiring a thorough knowledge of each of the Tone forms, so as to know them, by their officets that useh situations can call forth.

### FIVE-FINGER EXERCISES.

FIVE-FINGER EXERCISES.	CONCERT PROGRAMMES.	GERMANY.
BY ADOLPH EULLAE.	American Conservatory of Music, Chicago, Illinois.	BERLIN, Jan. 13th, 1887.
THE five numbers 1, 2, 3, 4, 5 represent the corre-	Organ Solo, Theme, Variations and Finale, Alex.	Epirons of the Etude :-
sponding fingers. The latter are held on the five keys, c,	Marhle Heart, Selby; Aria, Sulciulo, Es diocollad,	
d, e, f, g. The underlined numbers represent the fingers which remain stationary. Those not underlined the one	delssohn; Songs: (a) Am Meer, Schubert; (b) where the Lindens Bloom, Buck; Violin: (a) Elegie, Wieni-	been very lively, musically. Many fine concerts have been given; new works have been brought out, and more
or more fingers which raise themselves high and strong for the stroke. When several numbers not underlined	awsky; (b) Polonaise, Wieniawsky; Concert Stueck, Op. 79, C. M. von Weber; Song, A Summer Night, A.	are in prospect.  Xaver Scharwenka's concerts are among the most bril-
stand in a row, they are to be played successively, but	Polongise Popper: Recitation and Pantomime, -;	Xaver Scharwenka's concerts are among the most brilliant of the season. The Concert Haus is crowded with a brilliantly-dressed audience on these evenings, and the
each finger is to be held down not only until another strikes, but until it is its turn to play again. (The former		price of tickets is high for Germany—from three to six marks aniece. The first concert was a Liszt Fener, the
exercise is used later.) Two or more numbers standing	Robert Goldbeck, New York City. Second Concerto, R. Goldbeck: Bass Solo, The Two	programme including his 187th Psalm and Symphony on Dante's Divine Comedy. In the latter composition the
one above the other represent keys to be struck simul- taneously:-	Grenadiers, Schnmann; Piano Solo: (1) Mazourka in C, Chopin; (2) Mnrche funèbre, Chopin; (3) Valse in A	chorus was concealed from view at quite a distance, and the effect was indescribably beautiful; one almost felt it
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	flat, Chopin; Soprano Solo: (1) Morning Song, Rubin- stein: (2) The Dew it Shines, Rubinstein: (3) Spring	was, indeed, a choir of heavenly voices. This symphony has been given several times this winter, and each time anew its wonderful beauties strike one more forcibly. It
1 2 3 5 4 2 4 5 1 8	Song, Rubinstein; Violin Solo, Zigeunerweisen, Sara- sati: Piano Solo: (1) Dream Bells, Goldbeck: (2) Rhap-	anew its wonderful beauties strike one more forcibly. It
12458 2354 34512 4512	Robert Goldbeck, New York City.  Second Concerto, G. Goldbeck, Jans Solo, The Two Grandiers, Schmann; Piano Solo: (1) Mazonekain C.  Robpin; (2) Marche Imabre, Chopin; (3) Value in A.  Chopin; (2) Marche Imabre, Chopin; (3) Value in A.  Statin; (2) The Dew it Shines, Rabinaten; (3) Spring Song, Rabinaten; Violin Solo, Cigennerweisen, Sara- sait; Piano Solo: (1) Dream Bells, Goldbeck; (2) Rhaples, Goldbeck; Organ Solo: (a) Prayer and Credic Song, Licet Almos Solo: (b) Prayer and Credic Song, Live from Emani, Verdi; Piano Solo: (1) Memories, Goldbeck; (2) Aérai Gallop, Goldbeck; Trio, Queen of the Night, Smart.	is a pity it is not heard oftener in America.  Madame Softe Menter made her only appearance in  Redin this winter the second concert, playing Light's
0471 1004	Guilmant; (b) Festive March, Smart; Bass Solo, Infe-	Berlin this winter at the second concert, playing Liszt's Concerto in A major, pieces from Scharlotti, Schumann and Chopin, elosing with Liszt's Rhapsodie No. 12. I
125	Goldheck; (2) Aërial Gallop, Goldbeck; Trio, Queen of the Night, Smart.	was disappointed not to hear her in something deeper; but she will probably always be partial to her old master.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Hamilton College School of Music Lexington Ku	It was, nevertheless, a magnificent performance, and, as
1234 12345	Sonata in D minor, Op. 31, No. 2, Bzethoven; Sere- nach, Abt; Traumeswirren, from Op. 12, Schumann; Fantasie Brilliante, Op. 49, F minor, Chopin; Mazurka Caprice, Romanie Characteristique, Fantasie "Die Lore- tey," Perry; Transcription "Erl King," Schubert-Liszt; Ley," Perry; Transcription	but she will probably always be partial to her old master. It was, nevertheless, a magnificent performance, and, as usual, Madame Menter was greeted with storms of applause. Teresima Tua, Frau Amalie Joachim and Fraulein Elizabeth Jeppe have also been heard. The last
1048 12435 -5	Fantasie Brilliante, Op. 49, F minor, Chopin; Mszurka Caprice, Romanic Characteristique, Fantasie "Die Lore-	concert was a Wagner evening; scenes from Tristan and
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ley," Perry; Transcription "Erl King," Schubert Liszt; Barcarolle in G msjor, Étude on False Notes, Rubin-	ten and Herr Gudehus, from the Opera in Dresden, were
1 2 5 4	stein.	reputation in the opening of the third act of Tristan and
205	Duo, Sonate for Piano and Violin, A msjor, Haendel;	ancy was perceptible over the entire audience, and then
2 4 1 3 2 4 3 5	Da., Some for Franca at Vollini, A mison, Hassophia.  Da., Some for Franca and Vollini, A mison, Hassophia.  Da., Some for Franca and Vollini, A mison, Hassophia.  Da., Some for Franca and Vollini, A mison, Hassophia.  Organ Solo, Sonate No. 9, B flat minor, Op. 142, Rhein- herger; Vocal, Vederti (seremade), with Violoncello  Obligato, Rondinedia, Violin Solo, Concert No. 9 (fran- minor, Rohikinstein; Vocal, Seremade, Haff; Dance, Joachim; Quartette for Fanno, Violin, Viola and Violon- cello, Op. 16, Beethovan.	Isoue, aut wene Fri. Masten arose, a tremor or expectance was perceptible over the entire audience, and then utter silence. Every breath was held as the beautiful tions fell on the air filling every soul with delight. It was perfection of singing, a powerful, round, rich voice and the spirit of an artist to govern it. She certainly added new laurels to her already immense reputa-
1 3 5 4 1 4 5 2 3	Obligato, Rondinella; Violin Solo, Concert No. 9 (grad	voice and the spirit of an artist to govern it. She ccr-
1452 23418 234	minor, Ruhinstein; Vocal, Serenade, Raff; Dance,	tion by this concert.
1 2 3 3 4 7 2 3 4 2 5		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Albert Lea College, Minn., H. E. Briggs, Dir. Rondo, Burgmnller; Sonate, Beethoven; Nocturne,	tion by this concert.  In the next one in the course we are to hear a composition of Arthur Bird, an American who has heen studying here with Hampt, and who has been very favorably noticed already. One evening will be entirely devoted to the high Entin composers. There is more activity in the lift Defin composers.
5	Schumann; Polish Dance, Scharwenka; Kinderlehen, Op. 62. No. 6, Kullak; Presto, Mendelssohn; May	works of Berlin composers. There is more activity in the line of composition here than you on the other side of the water are ware of. A new suite of Meszkowski's
132454 312 21348	Time, Hoffmann; Les Sylphes, Bachmann; Danse des Sorcieries, De Koutski; Auf Gruner An, Merkel;	of the water are aware of. A new suite of Moszkowski's was brought out recently by the Philharmonic orchestra. It is of the size of a symphony, but with five movements
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Albert Lea Cotteps, Mann, M. E. Briggs, Dir. Rondo, Burgumller; Sonate, Beethoven; Noctarne, Rondo, Burgumller; Sonate, Beethoven; Noctarne, Scholm, C. C. Sonato, S. Colinb Dance, Scharwenkar, Kinderdehra, C. C. C. C. Sonato, S. C.	was brought out recently by the Philharmonic orchestra. It is of the size of a symphony, but with five movements. It is exceedingly heautiful and interesting, well worth a frequent hearing. Philip Scharwenka has also brought out an Arkadische Suite for orchestra, and some heautiful choral works.
159249 0 1 #		
201404	ST. ANN'S CHAPEL, DECEMBER 17TH. Organ Solo, Andante No. 1. On. 256. Volckmar	Sarasate played here Friday evening for the only time this winter. He gave us both Beethoven's and Mendels-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Sf. ANN'S CHAPPEL, DECEMBER 1771.  Organ Solo, Andanto No. 1, Dp. 258, Volckmar.  Organ Solo, Grand Offertoire, F major, Bulster, Litt.  Organ Solo, Grand Offertoire, F major, Bulster, Litt.  Organ Solo, Chappel Solo, Chappel Solo, Chappel Solo, The Major, Lifebure Wely; Organ Solo, Chard Frail, Lorens, Dp. 18, Lemmens; Vocal Solo, "The King of Lores," Gound: Organ Solo, Concerto, No. 2, A misor, Lorens, Decks; Tro., "I'v Watel for the Lord." Mendelson In Chappel Solo, Chap	this winter. He gave us both Beethoven's and Mendels- sohn's Concertos, some variations of his own, and, in response to an encore, some Spanish dances. The Con-
251484 14 14 14 245	Samaria), Sterndale Bennett; Organ Solo, Andante in F major, Léfehure-Wély; Organ Solo, Grand Final	response to an encore, some Spanish dances. The Concertos were calliste, both in technique and interpretation. For the cadenza in the one from Beethoven, we had a most wonderful improvisation. The andante of the Mendelssohn Concert was not played with the depth
241525 253 125	Chorus, Op. 18, Lemmens; Vocal Solo, "The King of Love," Gounod; Organ Solo, Concerto, No. 2, A minor,	the Mendelssohn Concert was not played with the depth
12 24141	Organ Solo, Prelude in G, Petrali; Organ Solo, Grand	and wonderful tone of Joachim, but the finale surpassed anything I ever heard on the violin, such a tempo, deli- cacy, clearness, accuracy! The audience waited to a
-34		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Great Eroica Symphony (1st movement), (four pianos; eight performers), Beethoven; Piano Solos; (a) Nocturne.	man after the close of the programme, trying to induce him to appear and play again—all in vain. He came out repeatedly and howed his thanks, but refused to play again; so we at last had to be satisfied.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Brassin; (b) Etude, B flat minor, Mendelssohn; Vocal Solo, "There is a Green Hill," Gounod: Grand Con-	G. F.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Certo in A minor, Schumann; Piano Solo, Polonaise in C sharp minor, Chopin; Grand Concerto in A minor	THE M. T. N. A. AND STATE MUSIC
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mendelsson; Trio, "Perfida Clori," Cherubini; Piano	TEACHERS' ASSOCIATIONS.
$\begin{smallmatrix}&&&5&4&3&4&2\\1&2&8&4&3&&&&&2\\&&&&&&&&&&&&&&&&&&&&&&&&&&&&&$	Great Eroica Symphony (Ist movement), (Gor pianos) eight performers, Heethover, Fanno Solos; (a) Noctarne, eight performers, Heethover, Fanno Solos; (a) Noctarne, Brassir, (b) Eude, B flat minor, Mendelssohn; Vocal Ceroti in A minor, Schwaman; Fromood, Grand Concecto in A minor, Schwaman; Fromood, Grand Concerto in A minor (Samorane, Mozart, Grand Concerto in A minor, Mendelssohn; Trio, "Perifica Clori," Cherubhi; Piano Mendelssohn; Trio, "Perifica Clori," Cherubhi; Piano Recitation, "The Starp minor, Chopin; English Recitation, "The Starp minor, Chepin; English Recitation, "The Starp minor, Chepin, "The Starp minor, "Th	FORT WAYNE, Jan. 18th, 1887.  A VERY enthusiastic meeting of the Representative
*2 *-2 1 1	Eureka College, W. W. Lauder, Musical Director. Mazeppa, Wrist Study, Rubinstein, Laurence	FORT WAINE, Jan. 18th, 1887.  A VERY enthnisatic meeting of the Representative Board of the Indiana Music Teachers' Association was held recently at Indianapolis. The relation of State Associations to the M.T. N. A. was thoroughly discussed. Mr. Max Leckner and Mrs. Flora M. Hunter, President of the Indiana Association State
When these exercises have been thoroughly practiced in close position, the five fingers must be used in more	pin; The Woodthrush, Hatton; Lullaby, Benedict; Hark, the solemn masic, Donizatti, Nay, Benedict;	dent of the Indiana Association, were appointed a committee to petition the M. T. N. A. for official recognition of the Representative Board of the I. M. T. A. By resolution to that effect the Secretary of the I. M. T. A.
extended position upon other keys, for example c, c,2f#,	mann; Study (Quartette from "The Printans."), "Art	of the Representative Board of the I. M. T. A. By resolution to that effect the Secretary of the I. M. T. A.
g, a, and repeat the same study. The close position does not at all suffice for a thorough training of the muscles of	(Princess and Captive's Story), Rubinstein; Sonata "Pathetique," Beethoven; "Whirlwind" Walts	the state of the s
the hand, and with the exception of Hummel the authors of exercises for stationary hand have quite overlooked	Serenade, The Brooklet, Ave Maria, Schuhert; Toccata and Fugue (Jupiter Tonans), Bach-Tangia; Garage	official recognition from the M. T. N. A., also to meet
this. Now, one must further take the extension c, c2, f#,	tasia, on two pianos, On "Sound the War Trumpets," from "The Puritans," Liszt; "Story of Vincetical"	the discussion of matters of interest to the associations.
a, h, then c, e, f#, a, c, and, where it is possible, more extended positions, and carry them out thoroughly	Left Hand alone, Czerny; Boating Song in Vanica	the much-desired union of the M. T. N. A. It is hoped that
through all the number exercises given above.	Eureka Colleg, W. W. Lauder, Musical Director. Mazepas, Wrist Stady, Rubinstein; Impromptin, Chopin; The Woodbrush, Hatton; Lullady, Benediet; Hark, the solemn mass, Donisetti; Novelette, Scharffer, W.	the indiana Board at Indianapolis, on July 4th, for the discussion of matters of interest to the associations, the discussion of matters of interest to the associations, the methods: and the methods: and the methods: and the methods: Associations may be brought about by this action. State Associations may be brought about by this action.
	1	Secretary Indiana Representative Board.

### CONCERT PROGRAMMES

## LETTER FROM A STUDENT IN

BY J. C. FILLMORE

Scale and (II) to Tonality and Modulation.

#### I. THE MINOR CHORD AND MINOR SCALE.

sophic thinking, and so suggestive, that it marked an epoch in the which makes the minor chord. The reciprocal acoustic relations of the overdevelopment of the theory of music. One of the most notable and tone and undertone series are paralleled by their mathematical relations suggestive portions of the work is that which treats of the minor chords, The vibration numbers of the overtones are represented by simple

forceful activity. That of the minor chord is rather heavy-heartedness, depression, melancholy, passive submission and endurance.

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THE PRACTICAL VALUE OF CERTAIN MODERN THEO- and not its lower one, and it is only a short step to the conception of an RIES RESPECTING THE SCIENCE OF HARMONY.\* under-chord, the perfect reciprocal of the major or over-chord—a chord an over-third and an over-fifth.

THE ETUDE.

(B) Von Oettingen's Theories .- This step was decisively taken, some THE practical value. I emphasize the adjective, because we are here, thirteen years later, by Dr. Arthur von Oettingen, Professor of Physics in not specially as scientific investigators, but as practical teachers; and the University of Dorpat. In his "Harmonie-system in dualer Entwickscientific theories concern us primarily only as they conduce to make our teaching more practical. If it can be shown that this or that theory is harmony, the dual, reciprocal relations, not only of the major and minor actually hased on rational principles, then we shall find it of real prac. chords, but of the major and minor scales. Von Oettingen had the great tical value to us. For only that teaching is really practical which ex advantage of profiting by the acoustical discoveries of Helmholtz, whose pounds and applies principles and laws found in the nature of things; epoch-making work was published in 1863, three years before von Oetting this alone is rational and permanent. The question for ns is, therefore: gen's book. Helmholtz not only carried the theory of overtones further Have there been any real discoveries of natural principles and laws not than it had been carried by any of his predecessors, but also the theory yet generally accepted and applied? If so, what are they, and how can we put them to real practical use, so as to simplify our teaching and make the major chord. This undertone series is a result of the phenomenor it more rational and intelligible? The object of this paper is to suggest an answer to these questions, so far as the subject of Harmony is con- ally in his chapter devoted to the latter subject. A resonator held to the cerned. I am decidedly of the opinion that such discoveries have been ear, he points out, will sound whenever any tone is given of which it is made, and that they are of immense practical value. The principles an overtone. If the strings of a piano are left free to vibrate by raising the which I hope to make clear relate: (I) to the Minor Chord and Minor dampers, and any given tone be sounded, all these strings will vihrate sympathetically, of which the given tone is a common overtone. Von Oettingen perceived, as Helmholtz did not, the harmonic significance of this fact. He points out that every conceivable tone is the central point (A) Moritz Hauptmann's Theories.—Some thirty-three years ago, Dr. of unity, not only of its overtone series, but of its undertone series as well Moritz Hauptmann, of Leipzig, published a work called "Die Natur Thus, for example, the tone c' (middle c), is not only the point of unity der Harmonick und der Metrik," a work so full of profound insight for the series of overtones c', c'', g'', c''', e''', g''', etc., which form the into the true nature of harmonic relations, so vigorous in its philo-

and this is the point which mainly concerns us at this time. Haupt multiples of the vibration number of the original tone; those of the mann called attention to the fact that the interval of the minor undertones hy simple fractions of it. If we represent the vibration numchord on which its unity is conditioned is not the first, as in the major ber of the central tone by 1, the ratios of the overtone series to it will be chord, but the fifth. In the major chords, according to Hasptmann, 1:2:3:4:5:6, etc.; those of the undertone series will be 1:4:4 the first, or lower tone, is the formative one, on which the unity of \$\frac{1}{2}:\frac{1}{ the chord is conditioned. It has a third and a fifth, dependent on it, made up will be produced by twice as many vihrations as the fundamental growing ont of it. In the minor chords the conditions are reversed. The tone of the series; the second overtone by three times as many, and so third and fifth do not grow out of the first (or lower) tone, are not dependent on it. The fifth, or upper tone, is a third and fifth, is fifth of the lower tone and third of the middle one. In Hauptmann's view, the third tingen goes on with an elaborate mathematical treatment of the subject, (that is, the major third), fifth and octave were the only internals that could be considered directly intelligible. All other intervals he derived from these. The relation of major third he finds between the third and overtone series belongs not only to the central tone as component, but to fifth of the minor chord. In the major chord, the conditions which determine the unity are active—the root has a third and a fifth. In the minor chord, the conditions which determine the unity are passive—the not only the central tone as a common overtone, but also all the other npper note is a third and a fifth. The two chords are, therefore, recip-rocals, counterparts, polar opposites. He points out, also, that this In general terms, any given tone is the central point of a system in which reciprocal relation is not only valid as regards their respective points of it is the highest one that includes all its certones as components, and unity, but also as regards their numerical proportions and their characteristic emotional expression. The numerical proportions he lays down for the control of the control o the intervals of the major chord are  $\frac{4:5:6}{1}$ ; those of the minor chord are unity for both. Of course, neither the overtone nor the undertone series downward. He compares the latter to a weeping willow; the former to dissonant notes. But they are commonly so faint, and play so unimport a tree whose hranches point neward. The characteristic expression of ant a part in determining the quality of a tone, that we may safely disrethe major chord, he thinks, is boldness, npward striving, aspiration, gard them, and treat each tone as made up of its fundamental and its first five overtones or undertones, or of both. This point I must touch upon later

After dealing thus thoroughly with the minor chord, after showing con-It seems never to have occurred to Hauptmann that the real point of clusively that it is not merely a disturbed, unsatisfactory modification of unity of the minor chord might also be its real generator. He saw no reason, apparently, for thinking the chord downward instead of npward. He does, indeed, insist that the tone C is not only the point of nuity of in fact, the exact reciprocal of it, von Oettingen turned his attention to the major chord C-E-G, but also of the minor chord F-A flat-C, the confused and confusing subject of the minor scale and the minor key. and points out their reciprocal relations. But it seems not to the seems of the minor key occurred to him that the minor calculated as a considerable when the minor calculated as a considerable when the minor calculated as a considerable when the minor can be a considerable when the minor can want to make it is seen as to the minor can be a considerable when the minor can be a c from the tone on which its unity is conditioned; it that intervals one he except that the predominance of minor chords in it give it a characteristic thought downward as well as upward; that it is really just as truly a strily a strily and the control of the co than was to have heen expected. All honor to Hanptmann for the free, suggestive, vigorous thinking which made further advance possible. He as the major key is a pure major. It is a key predominantly minor, with opened the way and pointed out the direction in which others were to go a prominent major element. Hauptmann, with his acute harmonic sense, farther than he did or could. It was an inevitable consequence of his discoveries about the minor chord that they should lead to others.

pointed out that there is in actual use a third key anacknowledged in our discoveries about the minor chord that they should lead to others. Thinkers were to come who would accept his views as true so far as they went, but who would not be able to stop with his conclusions. Once admit that the unity of the minor chord is determined by its upper tone of the minor key in common use. One is a major key with a minor under-fifth chord; the other a minor key with a major over-fifth chord. If Hauptmann had gone one step further, he would have seen

that our present minor key is a "major-minor" or "dur-moll" key, modified from pure minor as his "moll-dur" is from pure major. But this conception could not be reached until the reciprocal relations of pure major and minor had been fairly recognized. Hauptmann was misled, as his predecessors had been, and as nearly every one continues to be, by the supposed necessity of an ascending leading note in the minor key. But von Oettingen soon saw that the consistent carrying out of the dual principle involved a descending leading note in pure minor. The major scale, constructed of the tones of a major tonic, Over-fifth and Under fifth,

$$F-A-C-E-G-B-D$$
 is thus made up:  $C-D-E-F-G-A-B-C$ .

Von Oettingen proceeded to construct a pure minor scale, made up of the

tones of a minor tonic, Over-fifth and Under-fifth, Bb-Db-F-AD-C-E2-G. This scale turned out thus, reading downward instead of upward in the order of pitch: C-B2-A2-G-F-E7-D2-C. In the has the order 1. Over-fifth; 2. Under-fifth; 3. Tonic; thus:-



Melodically and harmonically, therefore, as well as mathematically and are minor, and the three mediant choids are major. These six acoustically, this scale is the reciprocal of the major. According to von Oettingen, then, there is implied in our tonal system

the following four kinds of keys

$$F-A-C-E-G-B-D$$
.

2. Mixed msjor (Hauptmann's "Moll-dur"), made up of a major Tonic and Over-fifth and a minor Under-fifth, thus:-

$$F \stackrel{\textstyle <}{-} A_{\overline{b}} - C - E - G - B - D.$$

This key, though not acknowledged in current text-books of Harmony, is Here we may dismiss von Oettingen for the present, and occupy ourit occurs wherever the Diminished Seventh Chord resolves into the major Riemann, of Hamburg. Tonic. ("Natur der Harmonik und der Metrik," p. 40.)

If the root were omitted, it would leave the diminished seventh chord, mental principles he accepted. exactly the kind of case instanced by Hauptmann.

$$B_{\delta} \stackrel{\textstyle <}{-} D_{\delta} - F \stackrel{\textstyle <}{-} A_{\delta} - C \stackrel{\textstyle <}{-} E_{\delta} - G$$
.

This key is neither acknowledged in current theory nor employed in

major Over-fifth, thus:-

$$B^{\delta} = D^{\delta} - F = A^{\delta} = C - E - G$$
.

This is the minor key in common use.

each major key and the pure minor key which begins on its third. The makes it extremely probable that we do hear, in every tone, not only the



The chords of the two keys are also identical, thus:-1. Chords of the key of C major :-

2. Chords of the key of E minor (pure) :-

In these diagrams I have anticipated one point of later nomenclature order of tones and semitones, this scale is the exact counterpart in underintervals of the major scale in over-intervals. So it is in its principal technical terms of von Oettingen's which need explanation. I have chords and its natural cadence formula. For, since it has a descending already called attention to the fact that, in pure minor, the under-fifth and leading-note, the under-fifth chord which contains this note is the natural not the over-fifth is the cadence-making chord, because it contains the chord to lead to the tonic at the close. So that whereas, in the msjor, descending leading note. But the term "Dominant" has been so long the natural cadence formula has the chords in the order 1. Under fifth; exclusively borne by the over-fifth that a new term corresponding to it 2. Over-fifth; 3. Tonic; in the pure minor the natural cadence-formula seemed to be needed to indicate the governing chord in pure minor. So von Oettingen invented the terms "Regnant" and "Super Regnant" for the Under fifth and Over-fifth chords, respectively, in pure minor, as being the reciprocals of "Dominant" and "Sub-dominant" in pure major. Riemann further applied the terms "Mediant," "Sub-mediant, and "Super mediant" to the chords beginning on the third of the Tonic, Under fifth and Over-fifth, respectively, whether in pure major

In pure major, the three principal chords are major, and the three mediant chords are minor. In pure minor, the three principal chords chords are the only (consonant) once that can be made from the scale

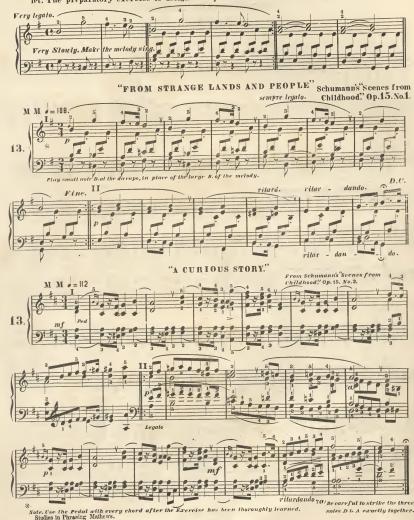
In the case of parallel keys, the chords of the two keys are identical; 1. Pure major, made of a major Tonic, Over fifth and Under-fifth, thus: the principal chords in the major key are the mediant chords in its parallel minor, and vice versa. The key relationship depends solely on their grouping and relation to a given chord as tonic. If the tonic is a major chord, the key is major; if the tonic is minor, the key is minor. In both cases the very same six chords are used. This is a point of great weight and importance. Let me emphasize it, and repeat that key depends not on the chords employed, but on their relation to the tonic chord. I shall have to recur to this further on.

numerously exemplified in actual practice. Hauptmann points out that selves with the ideas of still another distinguished theorist, Dr. Hugo

(C) Riemann's Theories. -Dr. Riemann was, and is, I believe, a pro-To give one example: the second subject of the first movement of Bee fessor in the Conservatory of Music, at Hamburg. Some ten years after thoven's Sonata, Op. 2, No. 1, is in the key of A2 major minor; i. c., it von Oettingen's system of Harmony appeared, he began publishing a has a minor sub-dominant. This subject is made up of the Dominant series of remarkable pamphlets on musical theory. These were all based Seventh Chord with an added minor 9th resolving into the major tonic. on the work of Hauptmann, Helmholtz and von Oettingen, whose funda-

1. It had been objected to von Oettingen's theory of the minor chord 3. Pure minor, made up of a minor Tonic, Over-fifth and Under-fifth, that we do not actually hear the undertone series in complex tones as we do the overtone series; that they can be heard only when there are strings or other sounding bodies free to vibrate in sympathy with given tones; that, consequently, the overtone series is ordinarily heard to the exclusion of the undertones, and that, even when the undertones are This key is notiner acanowacugou in carrier, in the actual practice of composers. It is, however, rationally concertable, actually present, tany are overcome by the overcome between the actual practice of composers. It is, however, rationally concertable, actually present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present, tany are overcome by the overcome between the actual present the actual p led Helmholtz to refrain from accepting von Oettingen's conclusions,-4. Mixed minor, made up of a minor Tonic and Under fifth and a and so he (Riemann) began to investigate this particular point. The result of his study seems to be that while it cannot be proved that the series of undertones is always present as an objective fact in the complex soundwave which reaches the ear, and while it must be admitted that the undertone series, even when objectively present, is generally fainter than the overtone series which is also present at the same time, yet that Helm-No Octtingen further called attention to the parallel relations between holtz's hypothesis regarding the functions of the nerve fibres in the ear pure minor scale of E, for example, read downward, of course has every overtones, but also the undertones, the combination, or resultant tones, both those resulting from the principal tones and also those resulting from the numerons combinations of overtones and nudertones, and beside these the beats resulting from the tones which are dissonant to each other. In short, he concluded that every tone we hear is not only complex, as Helmholtz's proved, but is much more complex than Helmholtz was aware of. The quality of the tone, as Helmholtz has already shown, depends on the relative proportions of the elements of which the complex tone is made np; only these are elements which Helmholtz did not take into account, that make the predominance of the undertone series some-

Aside from the singing melody in the Soprano, the principal difficulty of this piece lies in the triplet accompaniment, which is divided between the two hands in such a way that the right hand is apt to forsake the melody for the last tone of the triplet. The preparatory exercise is designed to prevent this. Learn without pedal.



### MIDDLE GRADE TECHNICAL EXERCISES.

### Normal position Exercises.

#### PART I.



NOTE 1. Fray this exercise and N. v. 10, 04, 05 and 42 so that cach is held through just one half the time of the following Note counting fwo to each quarter. Observe carefully, there must be a uniform, finger stroke, and a precise release of the key at the proper in-

Note 2. That is, when the accent passes in continuous succession from finger to finger. Accent with a free finger, the arm loose

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All the above should be played also in Dr and in D or B.

### Normal Position Touch and Rhythm Exercises.

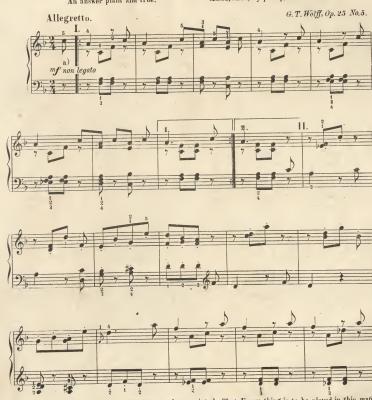
#### PART II.



Note 3. Nos 11 to 15 inclusive should also be practiced with the minor pentachord, No 10.



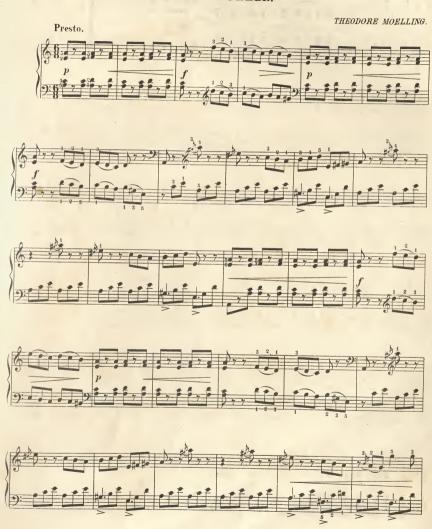
My pretty, dear Cuckoo, Say would you listen kindly, And be my prophet too, And give to all I ask you, An answer plain and true. Now should you, thank you kindly.
My pretty dear Cuekoo,
Fly hack into your wood again,
No more I ask of you!
Adieu, adieu, my pretty, dear Cuekoo!



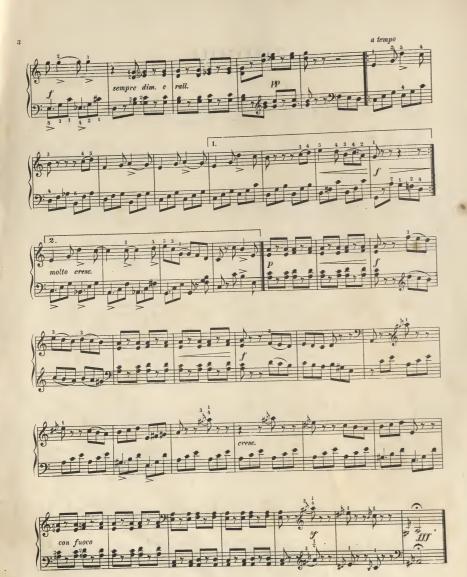
a) Non legato means a very light staccato, not a sharp pointed effect. Every thing is to be played in this manner, except the tones especially marked staccato or legato.

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## TARANTELLE.



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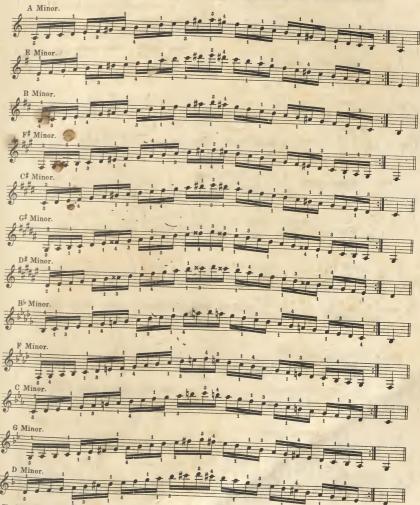


The Major Scale consists of two tetrachords (each of two whole steps and one halfstep) separated by a whole step. C. D. E. F. - G. A. B. C. In transposition, the upper tetrachord of any scale becomes the lower tetrachord of the next succeeding scale.



The Scales B, F# and Db are called "Enharmonic", as each may be written in a different way, using a different signature.

In the Harmonie Minor Scales, which serve as basis for harmonic formations, the 7th is chromatically raised a half-step. The third and sixth form minor intervals with the tonic or starting note.



The Minor Scales G<sup>#</sup>, D<sup>#</sup> and B<sup>b</sup> (Enharmonic), in their fingering, conform to that of their Relative Majors (those having the same signature), while all the others are fingered like their Tonic Majors (those having the same starting note).

The rhythmic pulsation in this piece is that of eighth notes, and the best effect will be obtained by counting four twice in each measure, at the rate of about 76 in a minute. The melody must be played with a singing tone, and the phrasing and time carefully observed. The accompaniment needs to be done very quietly. From Mozart's Sonata in G. Nº 14

(Peters' Edition.) Interlude.

Studies in Phrasing Mathews,

justifiable a phenomenon as the major chord, instead of being, as schrift, p. 77.) Helmholtz imagined it, a disturbed major chord. Of course, this Riemann found, also, that the conception of the dual relations of the

history of Musical Notation. In the course of these researches he came tions of a string. Riemann satisfied himself that the reason why Zarupon some remarkable facts.

with the Doric, the favorite scale of the Greeks. Riemann discovered that under this system it was impossible to think chords downward. The that the Greeks thought this scale downward, just as von Oettingen pro-figured bass system was at that time a practical necessity. The system of posed to think it. At least their notation of it, using letters of the alpha-musical notation was still so undeveloped that a score for an organist was bet, just as we do, and reading them backward, would seem to point dis- impossible. His only resource was to put the four parts over each other, tinctly to that conclusion. Moreover, although the mediaval theorists, as they were noted in the hymn-books, and note over the bass part the who adopted this scale from the Greeks, always thought it upward, yet intervals that the other parts made with it. He had to think his comsome, at least, of their melodies began at the top of the scale and ended binations of tones upward and not downward. So that the failure of with the lowest note, using the descending leading note before the tonic. Zarlino's idea to make its way was due, not to anything irrational in the I give here a single example, the choral, "Christus, der uns selig macht" idea itself, but to an accident of history. The time was not yet ripe for from 12 Bach chorals, published by Ditson & Co.

This choral is made from the following scale:



matter. He had not the least conception of pure minor harmony. His harmony is the church "Phygian," as then understood.

The natural harmonizing of this scale would be as follows:



The mediæval theorists not only misnnderstood the Greek writers on whose works they sought to base their labors, but even misapplied their scale names, so that the Greek "Doric," for one example, became the church "Phrygian." In short, mediæval theory is one maze of confusion. No wonder that it has taken so long to base our own theories on This is only one of many changes needed.

Riemann discovered, further, that the musican system of the Australian Persians was a pure minor one. They divided a string into twelve equal parts, and used one of these parts as a unit of measure. The other tones of the system were simple multiples of this, up to 12. This makes the of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system were simple multiples of this, up to 12. This makes the difference of the system simple undertone series, of which the minor chord is composed, the highest tone being the starting point. He found these facts in the works . See "The Nature of Harmony," by Dr. Riemann. I have lately translated it, and it of a Persian theorist dating at the end of the thirteenth and the begin- is published by Theodore Presser, of Philadelphia.

times possible, and that make the minor chord quite as satisfactory and ning of the fourteenth century of our era. (See Geschichte der Noten

is difficult, and, perhaps, impossible, to verify; but so is Helmholtz's major and minor chords was not new, even to Christian mediaval theory. original hypothesis, of which this is merely a slight extension. At Zarlino, an Italian theorist, published a work in 1558 in which he founded least, it is a good working hypothesis, and seems to have satisfied the minor chord on the under-tone series, using multiples of a string, just as the Arabs and Persians had done. He thus made it the reciprocal 2. Riemann made some very thorough historical studies and wrote a of the major chord, which he based on the over-tone series, using fraclino's ideas proved unfruitful and were consigned to oblivion was, that It had already been pointed out that the pure minor scale was identical the "thorough-bass" system came into vogue just about that time, and it. For similar reasons, failure awaited the attempts of Tartini and Rameau to establish the same ideas some two centuries later. The truth seems to be that all these theorists, of widely separated times and nationalities, discovered, each for himself, real natural facts and principles having a most important bearing on the relations of musical tones and chords. These discoveries came to nothing simply because the fullness of time had not yet come.\*

Thoroughly convinced of the rationality of the dual conception of harmony and of the major and minor scales as well, Riemann set himself to solve the problems involved in bringing them into practical use. Von Oettingen has already done much in this direction. Riemann accepted much of his work, modified some of it, extended it a good deal, and worked it out into a practical system of harmony. This system included thinking chords, intervals, scales and keys downward as well as upward, making necessary changes in nomenclature, and adapting the rules for the progression of voices to the changed conditions. To go into all these matters in detail would involve a complete review of his whole system; and this could not be done within the limits required of this paper.

It must suffice here to point out some of our own relations to his work. To begin with, the problem of nomenclature is not quite the same for us as for German theorists. For example, the Germans know nothing of 'major'' and "minor" scales, keys and chords. They use the terms "dur" and "moll," "hard" and "soft," so that they can with less difficulty retain these terms when they have reversed their modes of thinking for the " moll " system. But our terms cannot reasonably be retained. If we are to look on a so-called "minor" chord, for example, as having a major third and perfect fifth just as a major chord has, only reckoning from the upper note instead of the lower one, the terms "major," which means "greater," and "minor," which means "less," are not rationally applicable. One third is neither greater nor less than the other. They are just alike, only one is an over-third and the other an under-third. Besides, if we are to reckon the chord C-Ab-F, for example, from C, its A pure minor or under-scale, beginning on F above and closing on F below, with a pure minor cadence. Bach's harmony is a different cade we call it the chord of C minor, for that would be both irrational and confusing. It is really the under-chord of C, just as C-E-G is the over-chord of C. The simplest way for us would seem to be to discard over-control of ... The simpless way for the series of control of the terms "major" and "minor" altogether, and adopt the terms "over-scale" and "under-scale," "over-key" and "under-key," "over-interval" and "under-interval," "over-chord" and "under-interval," "over-chord "over-chord" and "under-interval," "over-chord "over-chord" and "under-interval," "over-chord "o

I have only space to suggest one modification of the current rules for the progression of voices consequent on the new ideas. It is an accepted rule that the seventh in a chord is to descend one degree. But in the under-keys the seventh chords are reckoned downward, and their natural resolution is upward. Take, for example, the Regnant Seventh chord in E under-key; it will be resolved thus:



Whether all this is practical or not is a question to be settled by expe Riemann discovered, further, that the musical system of the Arabs and rience. Those who are convinced of the validity of the new conceptions,

ideas and methods some years ago, and have ever since applied them It is too late to deny Wagner his place among great masters of harbility that I think it impossible ever to return to the methods in of his principles and expound them. which I was trained, and which I used during no small part of a The underlying principles which justify Wagner's harmony and make it contrary, there is great gain.

#### II. TONALITY AND MODULATION.

The old idea of key was confined to the tones of the scales. The tonic or keynote was held to he the central tone of the system; its point of unity and only the tone of the scale were thought of as real elements of the key. Passing notes, or hye-tones, or chromatic alterations might be admitted without disturbing the center of gravity; hut to use a chord containing a tone foreign to the key, especially a chord constituting an important element in another key, was to shift the point of unity altogether. This was especially true of the major chord with a minor seventh,—the Dominant, or cadence-making chord. Add to the tonic a minor seventh and it became at once a Dominant seventh; the tonic was changed instantly to the under-fifth, no matter if every other chord of the whole 'transient modulations" were of the commonest occurrence.

mony all claims to heing based on rational, intelligible principles. And a question of grouping and relation. yet, somehow, "Tanshinser" and "Lohengrin" made their way and If these principles be admitted, our ideas of modulation are modified at grew on the public. The younger generation of music lovers, especially, once. The new conception of tonality is so much broader and more ingree on the purchase successions of chords just as satisfactory as any clusive than the old one, that much that we have formerly looked on as body's, even if they could not explain them on any principles which had "transfert modulation" becomes a mere emphasizing of primary rela-

debted mainly, if not wholly, to Dr. Riemann. In the first place, we serve to emphasize the Dominant chord without shifting the centre of debted mainly, it not wantly, to Dr. Astemann. In the man place, we serve to emphasize the Dr. Asteman and the gravity. This may even be true when this emphasis continues for a whole the increased importance of harmony in proportion to melody, the tonic | phrase or clause. Any other primarily (or even secondarily) related chord rather than the tonic note has become the centre of gravity of the chord may be similarly emphasized without forcing on us the sense of a

Next we must admit that the tonic chord remains tonic until some other is decisively substituted for it. And it takes a good deal more than it used to force npon us the sense of a new tonio. In the first place, as exemplified above in the case of the parallel overscale and underscale, the question of tonic is not one of what chords are used, but of grouping and relation. When this principle is once admitted our whole ground is shifted. We do not ask concerning a chord "Does it belong to the scale?" but "Is it so related to our present tonic that it can be used here without forcing on us the sense of a new tonic?"

In the next place, it must be admitted that the two fifth-chords are not There will be cases where opinions will differ, and each one must dethe only ones primarily related to the tonic. In the practice of the comcide for himself whether a given passage is more easily intelligible when the only ones primarily reases to the outer the property of the control of the original key or as related to a new onic. hold anquestioned supremacy. But even Beethoven and Schubert began But, in general, the new idea of key will so modify our conception of hote inquestioned supremary. Our even homeore has comment ugan Dus, in general, the new most set, will so mount our conception to divine the significance and close relationship of the chords of the over modulation, that we shall find fewer cases which we must regard as real to drive are aguine-and doze reasonable to the doze two take their changes of key. We shall confine our sense of change of key to cases three and the underlined in regions processes there is the state of th places cesses the two numerous as expansy parametr, and as nothing a water a new other seems to be many essentiated by a considerance relationship equally close and intimate. The chords of the over- and length of time; where the centre of gravity is so shifted that we must under sixth are hardly less important. Go through almost anything of regard the change as comparatively permanent. Wagner's or Lizar's, and the prominence of third and sixth relationships | The natural place to apply and test these ideas is in the analysis of the

in my harmony teaching, both in the writing of exercises and in analysis. mony. Henceforth, theory which would not lag a half century behind I have found so marked a gain in simplicity and in comprehensithe time must explain Wagner's practice; must demonstrate the validity

lifetime. I find it impossible to deny the validity of von Oettingen's dis- perfectly comprehensible are two: 1. The one already announced, that coveries and of his conclusions. The facts are really there, founded in any and every chord belongs to a key which can be so used as not to force the nature of things, in the mathematical and acoustical relations of tones. on us the sense of a new tonic; and, 2. That every conceivable chord is so The rational, and consequently the practical, way, is to fit our theories to related to every conceivable tonic. This will seem to many an astounding the facts. Further, I find it much simpler and easier to treat our present statement, but I believe it can be shown to be strictly true. Let me illusminor as a mized key, modified from the pure under key. Thus treated, trate. Let C be the tonic chord. If we admit the validity of the third and it becomes perfectly comprehensible, and all the confusion heretofore sixth relationships, as we certainly must, we have at once six overchords prevalent is at once removed. I have found little difficulty, even at mid-primarily related to the tonic,—the chords of the overthird, overfifth, overdle age, in spite of long habit, in learning to think intervals and chords sixth, underthird, underfifth and undersixth. Each of these has a note downward, and my pupils find none at all. So far as my experience goes, in common with the tonic chord, i.e., some one note of the tonic chord there is absolutely nothing impractical in applying the new ideas. On the is either first, third or fifth of each of these six chords. But such note of the tonic chord may also be first, third or fifth of an underchord; so that, allowing for duplicates, there are six underchords primarily related to the tonic

The following table exhibits this clearly :-

a. Over-Chords of the b. Under-Chords Reinted to C +1 1. Through C. 2. Through E. 3. Through G. E A F - C+ G+ E+ A+ C+ OC OE, OG (OE) OG OB (OG) (OB) OB

But each of these chords has also six overchords and six underchords period belonged to the original key. Under this way of looking at key, primarily related to it. Since there are only twelve overchords and But how ahout modern harmony? There were passages in Beethoven, harmonic chords as identicall, there will be numerous duplicates, and all twelve underchords in the whole tonal system (counting, of course, enin Schubert, in Schumann, in Chopin, which were extremely puzzling, if the chords not primarily related to C+ will be assondarily related to it; we have to look on every chord foreign to the scale as introducing a more i.e, the relation will he as close as is that of the chord A-F-D, which or less decided change of key. But Wagner! What was to be done with belongs in the scale. And what is true of C+ is, of course, true of every such an arch-heretic? On what rational grounds could we account for a other chord used as a tonic, whether it be an overchord or an underchord. continuous succession of chords, hardly any two of which were to be Each and every chord of the whole chromatic scale is a component of found in the same scale? Ahuse him, of course. Call him names. Say that each and every key, whether overkey or underkey. The question of key, I he had no fixed key from one end of an opera to another. Deny his har repeat, is not one of what chords are used, but of how they are used; it is

been taught them. Lizzt, too, was another sumbling-block. He had no tions, or, at most, the introduction of secondarily related elements. Thus, oben magne them agent the more a settled keynote, in the ordinary sense of key, than Wagner himself. for example, the mere introduction of the chord d-f a-c in the key of The solution of the puzzle is really very simple, and for it we are in- C does not necessarily involve a change of tonic to C+; it may merely tonal system. Nowadays, we can hardly think the tonic at all without new tonic. The following passage would formerly have been held to contain a "transient modulation" into D minor:-



Whereas we have simply, 1. Tonic; 2. Overchord of the oversixth

wague sor make a man see possession of the surprising to any one who has heretofore looked on fifth relation-harmonies of Wagner and Liszt. Wheever will do this will find them sources of real enlightenment.

#### BY J. C. FILLMORE,

THE practical value. I emphasize the adjective, because we are here, not specially as scientific investigators, but as practical teachers; and the University of Dorpat. In his "Harmonie system in dualer Entwick not appearant as sometime in reasonators, out as practical teachers; and seientific theories concern us primarily only as they conduce to make our teaching more predictal. If it can be shown that fise of that theory the dual, reciprocal relations, not only of the major and minor actually hased on rational principles, then we shall find it of real practical value to us. For only that teaching is really practical which ex advantage of profiting by the acoustical discoveries of Helmholtz, whose pounds and applies principles and laws found in the nature of things; epoch-making work was published in 1863, three years before von Octionthis alone is rational and permanent. The question for us is, therefore; gen's book. Helmholtz not only carried the theory of overtones further thave there been any real discoveries of natural principles and laws not yet generally accepted and applied? If so, what are they, and how can of undertones, which involves the minor chord as the overtone series does we put them to real practical use, so as to simplify our teaching and make the major chord. This undertone series is a result of the phenomenon it more rational and intelligible? The object of this paper is to suggest of sympathetic vibrations, and Helmholtz called attention to it incident an answer to these questions, so far as the subject of Harmony is con- ally in his chapter devoted to the latter subject. A resonator held to the cerned. I am decidedly of the opinion that such discoveries have been ear, he points out, will sound whenever any tone is given of which it is made, and that they are of immense practical value. The principles an overtone. If the strings of a piano are left free to vibrate by raising the which I hope to make clear relate: (I) to the Minor Chord and Minor dampers, and any given tone be sounded, all these strings will vibrate Scale and (II) to Tonality and Modulation.

#### I. THE MINOR CHORD AND MINOR SCALE.

Moritz Hauptman, of Leipzig, published a work called "Die Natur Thus, for example, the tone of (middle o), in only the point of unity der Harmoniek und der Metrik," a work so full of profound insight into the true nature of harmonic relations, so vigorous in its philosophic thinking, and so suggestive, that it marked an epoch in the which makes the minor chord. The reciprocal acoustic relations of the over development of the theory of music. One of the most notable and tone and undertone series are paralleled by their mathematical relations suggestive portions of the work is that which treats of the minor chords, and this is the point which mainly concerns us at this time. Haupt multiples of the vibration number of the original tone; those of the mann called attention to the fact that the interval of the minor undertones by simple fractions of it. If we represent the vibration num chord on which its unity is conditioned is not the first, as in the major ber of the central tone by 1, the ratios of the overtone series to it will be chord, but the fifth. In the major chords, according to Hauptmann, 1:2:3:4:5:6, etc.; those of the undertone series will be 1:2:4: the first, or lower tone, is the formative one, on which the unity of 1:1:1, etc. That is, the first overtone of which the complex tone is the chord is conditioned. It has a third and a fifth, dependent on it, made up will be produced by twice a snary pirations as the fundamental growing out of it. In the minor chords the conditions are reversed. The third and fifth do not grow out of the first (or lower) lose, are not depend on; while the first note over will have only last a many, and so on. You Octthird and fifth do not grow out of the first (or lower) lose, are not depend on; while the first noder lower will have only last a many ristations as
ent on it. The fifth, or upper tone, is a third and fifth; is fifth of the lower tone and third of the middle one. In Hauptmann's view, the third tingen goes on with an elaborate mathematical treatment of the subject, (that is, the major third), fifth and octave were the only intervals that for which I have not space here. Those who are interested in it must be could be considered directly intelligible. All other intervals he derived referred to the book itself. He also pointed out that every tone of the from these. The relation of major third he finds between the third and overtone series belongs not only to the central tone as component, but to fifth of the minor chord. In the major chord, the conditions which determine the unity are active—the root has a third and a fifth. In the series of overtones. And, reciprocally, the whole undertone series has minor chord, the conditions which determine the unity are passive-the not only the central tone as a common overtone, but also all the other upper note its third and soft. The two chords are, therefore, we would not extend this it true of no all the other possible, counterprite, pulse opposites. He points out, also, that this reciprocal solution is not only valid as regards their respective points in the counterprite pulse opposites. He points out, also, that this reciprocal stallation is not only valid as regards their respective points in the counterprite pulse. The first free of its intermediate their numerical proportions and their characteristic monitorial as receptors. The first five of its control of the counterprite pulse of the counterprite pulse. istic emotional expression. The namerical proportions he lays down for istic emotional expression. The numerical proportions he lays down for the intervals of the major chord are  $\frac{4:5:6}{1:1}$ ; those of the minor chord are unit for both. Of course, neither the overtone nor the undertone series

downward. He compares the latter to a weeping willow; the former to dissonant notes. But they are commonly so faint, and play so unimport a tree whose branches point upward. The characteristic expression of the major chord, he thinks, is holdness, upward striving, aspiration, forceful activity. That of the minor chord is rather heavy-heartedness, depression, melancholy, passive submission and endurance.

It seems never to have occurred to Hauptmann that the real point of unity of the minor chord might also be its real generator. He saw no reason, apparently, for thinking the chord downward instead of upward. He does, indeed, insist that the tone C is not only the point of unity of the major chord C-E-G, but also of the minor chord F-A flat-C, the confused and confusing subject of the minor scale and the minor key and points out their reciprocal relations. But it seems not to have occurred to him that the minor chord as well as the msjor might be named might rationally expect it to be, the counterpart of the major in any way. from the tone on which its unity is conditioned; that intervals can be except that the predominance of minor chords in it give it a characteristic thought downward as well as upward; that it is really just as truly a major expression. The major key has a major chord for its Tonic, another for thought downward as well as upward; that it is really just as truly a major third downward from C to A2 as upward from A2 to C, and just as truly a fifth from G down to F as from Fup to C. But this was, perhaps, than was to have been expected. All honor to Hasptmann for the free, and a major chord for its Over-fifth. It is not, therefore, a pure minor key than was to have been expected. All honor to Hasptmann for the free, suggestive, vigorous thinking which made further advance possible. He as the major key is a pure major. It is a key predominantly minor, with opened the way and pointed out the direction in which others were to go a prominent major element. Hauptmann, with his acute harmonic sense, farther than he did or could. It was an inevitable consequence of his discoveries about the minor chord that they should lead to others. theoretical systems, a. "Moll-dur" or "Minor-major" key, as he called Thinkers were to come who would accept his views as true so far as they went, but who would not be able to stop with his conclusions. Once major chord for the sub dominant. It is, in fact, the exact counterpart admit that the unity of the minor chord is determined by its upper tone or reciprocal of the minor key in common use. One is a major key with

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THE PRACTICAL VALUE OF CERTAIN MODERN THEO- and not its lower one, and it is only a short step to the conception of an RIES RESPECTING THE SCIENCE OF HARMONY.\* | under-chord, the perfect reciprocal of the major or over-chord-a chord consisting of an under-third and under-fifth as the major chord does of an over-third and an over-fifth

(B) Von Oettingen's Theories .- This step was decisively taken, some thirteen years later, by Dr. Arthur von Oettingen, Professor of Physics in sympathetically, of which the given tone is a common overtone. Von Oettingen perceived, as Helmholtz did not, the harmonic significance of this fact. He points out that every conceivable tone is the central point (A) Moritz Hauptmann's Theories.—Some thirty-three years ago, Dr. of unity, not only of its overtone series, but of its undertone series as well.

1 6:5:4. The major chord, he thinks, strives neward; the minor droops stops with the fifth. Both extend indefinitely and include numbers of five overtones or undertones, or of both. This point I must touch upon later

After dealing thus thoroughly with the minor chord, after showing conclusively that it is not merely a disturbed, ansatisfactory modification of Every musician knows that the minor scale in actual use is not, as we a minor under-fifth chord; the other a minor key with a major over-fifth chord. If Hauptmann had gone one step further, he would have seen that our present minor key is a "major-minor" or "dur-moll" key, | The chords of the two keys are also identical, thus:modified from pure minor as his "moll-dnr" is from pure major. But this conception could not be reached until the reciprocal relations of pure major and minor had heen fairly recognized. Hauptmann was misled, as his predecessors had heen, and as nearly every one continues to be, by the supposed necessity of an ascending leading note in the minor key. But von Oettingen soon saw that the consistent carrying out of the dual principle involved a descending leading note in pure minor. The major scale, constructed of the tones of a major tonic, Over-fifth and Under-fifth,

F-A-C-E-G-B-D is thus made up: C-D-E-F-G-A-B-C. Von Oettingen proceeded to construct a pure minor scale, made up of the

tones of a minor tonic, Over-fifth and Under-fifth, Bs-Ds-F-AD-C-E2-G. This scale turned out thus, reading downward instead of up ward in the order of pitch: C-B2-A2-G-F-ED-D2-C. In the

has the order 1. Over-fifth; 2. Under-fifth; 3. Tonic; thus:-



acoustically, this scale is the reciprocal of the major.

According to von Oettingen, then, there is implied in our tonal system itself the following four kinds of keys:-

$$F-A-C-E-G-B-D$$
.

Tonic and Over-fifth and a minor Under-fifth, thus:-

This key, though not acknowledged in current text-hooks of Harmony, is Here we may dismiss von Oettingen for the present, and occupy our it occurs wherever the Diminished Seventh Chord resolves into the major Riemann, of Hamburg. Tonic. ("Natur der Harmonik und der Metrik," p. 40.)

If the root were omitted, it would leave the diminished seventh chord, mental principles he accepted. exactly the kind of case instanced by Hauptmann.

$$B_{\delta} - D_{\delta} - F - A_{\delta} - C - E_{\delta} - G$$

the actual practice of composers. It is, however, rationally conceivable,

This is the minor key in common use.



2. Chards of the key of E minor (pure) :-

In these diagrams I have anticipated one point of later nomenclature order of tones and semitones, this scale is the exact counterpart in underintervals of the major scale in over-intervals. So it is in its principal technical terms of von Oettingen's which need explanation. I have chords and its natural cadence formula. For, since it has a descending already called attention to the fact that, in pure minor, the under-fifth and leading-note, the under-fifth chord which contains this note is the natural not the over-fifth is the cadence-making chord, because it contains the chord to lead to the tonic at the close. So that whereas, in the major, descending leading-note. But the term "Dominant" has been so long the natural cadence-formula has the chords in the order 1. Under-fifth; exclusively horne by the over-fifth that a new term corresponding to it 2. Over-fifth: 3. Tonic: in the pure minor the natural cadence-formula seemed to be needed to indicate the governing chord in pure minor. So von Oettingen invented the terms "Regnant" and "Super Regnant" for the Under-fifth and Over-fifth chords, respectively, in pure minor, as being the reciprocals of "Dominant" and "Sub-dominant" in pure major. Riemann further applied the terms "Mediant," "Sub-mediant," and "Super-mediant" to the chords beginning on the third of the Tonic, Under-fifth and Over-fifth, respectively, whether in pure major

In pure major, the three principal chords are major, and the three mediant chords are minor. In pure minor, the three principal chords Melodically and harmonically, therefore, as well as mathematically and are minor, and the three mediant chords are major. These six chords are the only (consonant) ones that can be made from the scale

In the case of parallel keys, the chords of the two keys are identical; 1. Pure major, made of a major Tonic, Over-fifth and Under-fifth, thus: the principal chords in the major key are the mediant chords in its paral. lel minor, and vice versa. The key relationship depends solely on their grouping and relation to a given chord as tonic. If the tonic is a major 2. Mixed major (Hauptmann's "Moll-dur"), made up of a major chord, the key is major; if the tonic is minor, the key is minor. In hoth cases the very same six chords are used. This is a point of great weight and importance. Let me emphasize it, and repeat that key depends not on the chords employed, but on their relation to the tonic chord. I shall have to recur to this further on

numerously exemplified in actual practice. Hauptmann points out that selves with the ideas of still another distinguished theorist, Dr. Hugo

To give one example: the second subject of the first movement of Bee- fessor in the Conservatory of Music, at Hamburg. Some ten years after thoven's Sonata, Op. 2, No. 1, is in the key of A2 major minor; i. c., it von Octingen's system of Harmony appeared, he began publishing a has a minor sub-dominant. This subject is made up of the Dominant series of remarkable pamphlets on musical theory. These were all based Seventh Chord with an added minor 9th resolving into the major tonic. on the work of Hauptmann, Helmholtz and von Oettingen, whose funda-

3. Pure minor, made up of a minor Tonic, Over-fifth and Under-fifth, that we do not actually hear the undertone series in complex tones as we 1. It had been objected to von Oettingen's theory of the minor chord do the overtone series; that they can be heard only when there are strings or other sounding bodies free to vibrate in sympathy with given tones; that, consequently, the overtone series is ordinarily heard to the This key is neither acknowledged in current theory nor employed in exclusion of the undertones, and that, even when the undertones are the actual practice of composers. It is, nowever, ranguage concernances, and there is no apparent reason why it should not be added to the led Helmholtz to refrain from accepting von Octingen's conclusions,—
led Helmholtz to refrain from accepting von Octingen's conclusions, resources of musical expression.

A. Mixed minor, made up of a minor Tonic and Under fifth and a major Over-fifth, thus:—

and so be (Riemann) began to investigate this particular point. The result of his study seems to be that while it cannot be proved that the series of undertones is always present as an objective fact in the complex soundwave which reaches the ear, and while it must be admitted that the under tone series, even when objectively present, is generally fainter than the No Octingen further called attention to the parallel relations between holts also present at the same times, yet the care holts also present at the same times, yet the care holts also present at the same times, yet the care holts also present at the same times, yet the care holts also present at the same times, yet the care holds a same times, yet the care hold Von Octungen turner causes accessed to the position of the major key and the pure minor key which begins on its third. The makes it extremely probable that we do hear, in every tone, not only the each major key and one pure minor key, since segme out he united. The makes it extremely probable that we do hear, in every tone, not very pure minor scale of E, for xample, read downward, of course has every overtones, but also the undertones, the combination, or resultant tones. both those resulting from the principal tones and also those resulting from the numerous combinations of overtones and nudertones, and beside these the heats resulting from the tones which are dissonant to each other. In short, he concluded that every tone we hear is not only complex, as Helmholtz's proved, but is much more complex than Helmholtz was aware of. The quality of the tone, as Helmholtz has already shown, depends on the relative proportions of the elements of which the complex tone is made up; only these are elements which Helmholtz did not take into account, that make the predominance of the nndertone series some

times possible, and that make the minor chord quite as satisfactory and ning of the fourteenth century of our era. (See Geschichte der Notenjustifiable a phenomenon as the major chord, instead of being, as schrift, p. 77.) Helmholtz imagined it, a disturbed major chord. Of course, this Riemann found, also, that the conception of the dual relations of the is difficult, and, perhaps, impossible, to verify; but so is Helmholtz's major and minor chords was not new, even to Christian mediæval theory. original hypothesis, of which this is merely a slight extension. At Zarlino, an Italian theorist, published a work in 1558 in which he founded least, it is a good working hypothesis, and seems to have satisfied the minor chord on the under-tone series, using multiples of a string, Riomann.

history of Musical Notation. In the course of these researches he came tions of a string. Riemann satisfied himself that the reason why Zarupon some remarkable facts.

from 12 Bach chorals, published by Ditson & Co.



This choral is made from the following scale:

below, with a pure minor cadence. Bach's harmony is a different can we call it the chord of C minor, for that would be both irrational and matter. He had not the least conception of pure minor harmony. His confusing. It is really the under-chord of C, just as C-E-G is the harmony is the church "Phygian," as then understood.

The natural harmonizing of this scale would be as follows:



The mediæval theorists not only misunderstood the Greek writers or whose works they sought to base their labors, but even misapplied their scale names, so that the Greek "Doric," for one example, became the church "Phrygian." In short, mediæval theory is one maze of confusion. No wonder that it has taken so long to hase our own theories on This is only one of many changes needed rational principles.

of the system were simple multiples of this, up to 12. This makes the themselves. I can say for myself that I became familiar with the new simple undertone series, of which the minor chord is composed, the of a Persian theorist dating at the end of the thirteenth and the begin- is published by Theodore Presser, of Philadelphia

just as the Arabs and Persians had done. He thus made it the reciprocal 2. Riemann made some very thorough historical studies and wrote a of the major chord, which he based on the over-tone series, using fraclino's ideas proved unfruitful and were consigned to oblivion was, that It had already been pointed ont that the pure minor scale was identical the "thorough-bass" system came into vogne just about that time, and with the Doric, the favorite scale of the Greeks. Riemann discovered that under this system it was impossible to think chords downward. The that the Greeks thought this scale downward, just as von Octtingen pro- figured bass system was at that time a practical necessity. The system of posed to think it. At least their notation of it, using letters of the alpha musical notation was still so undeveloped that a score for an organist was et, just as we do, and reading them backward, would seem to point dis impossible. His only resource was to put the four parts over each other, tinetly to that conclusion. Moreover, although the mediaval theorists, as they were noted in the hymn books, and note over the bass part the who adopted this scale from the Greeks, always thought it upward, yet intervals that the other parts made with it. He had to think his comsome, at least, of their melodies began at the top of the scale and ended binations of tones npward and not downward. So that the failure of with the lowest note, using the descending leading note before the tonic. Zarlino's idea to make its way was due, not to anything irrational in the I give here a single example, the choral, "Christus, der uns selig macht" idea itself, but to an accident of history. The time was not yet ripe for it. For similar reasons, failure awaited the attempts of Tartini and Rameau to establish the same ideas some two centuries later. The trnth ascens to be that all these theorists, of widely separated times and nationalities, discovered, each for himself, real natural facts and principles having a most important bearing on the relations of musical tones and chords. These discoveries came to nothing simply because the fullness of time had not yet come.\*

Thoroughly convinced of the rationality of the dual conception of har-Incoverging convinced of the randomity of the dual conception of harmony and of the major and minor scales as well, Riemann set himself to solve the problems involved in bringing them into practical use. Von Castiene the problems involved in bringing them into practical use. Octingen has already done much in this direction. Riemann accepted much of his work, modified some of it, extended it a good deal, and worked it out into a practical system of harmony. This system included thinking chords, intervals, scales and keys downward as well as upward, making necessary changes in nomeuclature, and adapting the rules for the progression of voices to the changed conditions. To go into all these matters in detail would involve a complete review of his whole system ; and this could not be done within the limits required of this paper.

It must suffice here to point ont some of our own relations to his work. To begin with, the problem of nomenclature is not quite the same for us as for German theorists. For example, the Germans know nothing of "major" and "minor" scales, keys and chords. They use the terms "dur" and "moll," "hard" and "soft," so that they can with less difficulty retain these terms when they have reversed their modes of think ing for the "moll" system. But our terms cannot reasonably be retained If we are to look on a so-called "minor" chord, for example, as having a major third and perfect fifth just as a major chord has, only reckoning from the upper note instead of the lower one, the terms "major," which means "greater," and "minor," which means "less," are not rationally applicable. One third is neither greater nor less than the other. They are just alike, only one is an over-third and the other an under-third. Besides, if we are to reckon the chord C-AP-F, for example, from C, its A pure minor or under-scale, beginning on F above and closing on F true point of unity, we can no longer call it the chord of F minor, nor over-chord of C. The simplest way for us would seem to be to discard the terms "major" and "minor" altogether, and adopt the terms "over-scale" and "nnder-scale," "over-key" and "under-key," "over-interval" and "nnder-interval," "over-chord" and "under chord.

I have only space to suggest one modification of the current rules for the progression of voices consequent on the new ideas. It is an accepted rule that the seventh in a chord is to descend one degree. But in the under-keys the seventh chords are reckoned downward, and their natural resolution is upward. Take, for example, the Regnaut Seventh chord in E nnder-key; it will be resolved thus :-



Whether all this is practical or not is a question to be settled by experational principles.

Riemann discovered, further, that the munical system of the Araba and Persians was a pure minor one. They divided a string into twelve equal parts, and used one of these parts as a unit of measure. The other tones parts, and used one of these parts as a unit of measure. The other tones is a desired or not is a question to be settled by experience. Those who are convinced of the validity of the new conceptions, and those others who are not yet fairly convinced, but see enough probability in them to demand further consideration, can test the matter for

highest tone being the starting-point. He found these facts in the works • See "The Nature of Harmony," by Dr. Riemann. I have lately translated it, and it

bility that I think it impossible ever to return to the methods in of his principles and expound them. which I was trained, and which I used during no small part of a The underlying principles which justify Wagner's harmony and make it lifetime. I find it impossible to deny the validity of von Oettingen's discoveries and of his conclusions. The facts are really there, founded in any and every chord belongs to a key which can be so used as not to force the nature of things, in the mathematical and acoustical relations of tones. on us the sense of a new tonic; and, 2. That every conceivable chord is so The rational, and consequently the practical, way, is to fit our theories to related to every conceivable tonic. This will seem to many an astounding the facts. Further, I find it much simpler and easier to treat our present statement, but I believe it can be shown to be strictly true. Let me illusminor as a mixed key, modified from the pure under-key. Thus treated, trate. Let C be the tonic chord. If we admit the validity of the third and it becomes perfectly comprehensible, and all the confusion heretofore sixth relationships, as we certainly must, we have at once six overchords prevalent is at once removed. I have found little difficulty, even at mid-primarily related to the tonic,—the chords of the overthird, overfifth, overdle age, in spite of long habit, in learning to think intervals and chords sixth, underthird, underfifth and undersixth. Each of these has a note downward, and my pupils find none at all. So far as my experience goes, in common with the tonic chord, i.e., some one note of the tonic chord there is absolutely nothing impractical in applying the new ideas. On the is either first, third or fifth of each of these six chords. But such note contrary, there is great gain.

#### II. TONALITY AND MODULATION.

The old idea of key was confined to the tones of the scales. The tonic or keynote was held to be the central tone of the system; its point of unity and only the tone of the scale were thought of as real elements of the key. Passing notes, or bye-tones, or chromatic alterations might be admitted without disturbing the center of gravity ; but to use a chord con taining a tone foreign to the key, especially a chord constituting an important element in another key, was to shift the point of unity altogether. This was especially true of the major chord with a minor seventh,-the Dominant, or cadence-making chord. Add to the tonic a minor seventh and it became at once a Dominant seventh; the tonic was changed instandy to the under-fifth, no matter if every other chord of the whole But esch of these chords has also six overchords and six underchords transient modulations" were of the commonest occurrence.

mony all claims to being based on rational, intelligible principles. And a question of grouping and relation, yet, somehow, "Tannhäuser" and "Lohengrin" made their way and If these principles be admitted, our ideas of modulation are modified at grew on the public. The younger generation of music lovers, especially, once. The new conception of tonality is so much broader and more inbody's, even if they could not explain them on any principles which had "transient modulation" becomes a mere emphasizing of primary relabent taught them. Liszt, too, was another stumbling-block. He had no tions, or, at most, the introduction of secondarily related elements. Thus,

debted mainly, if not wholly, to Dr. Riemann. In the first place, we serve to emphasize the Dominant chord without shifting the centre of must admit that, with the new conception of tones as complex, and with gravity. This may even be true when this emphasis continues for a whole must admit that, where the tender of the increased importance of harmony in proportion to melody, the tonic chord rather than the tonic note has become the centre of gravity of the chord may be similarly emphasized without forcing on us the sense of a tonal system. Nowadays, we can hardly think the tonic at all without new tonic. The following passage would formerly have been held to including the chord in the idea.

Next we must admit that the tonic chord remains tonic until some other is decisively substituted for it. And it takes a good deal more than it used to force upon us the sense of a new tonic. In the first place, as exemplified above in the case of the parsllel overscale and underscale, the question of tonic is not one of what chords are used, but of grouping and relation. When this principle is once admitted our whole ground is shifted. We do not ask concerning a chord "Does it belong to the scale?" but "Is it so related to our present tonic that it can be used here without forcing on us the sense of a new tonic?"

In the next place, it must be admitted that the two fifth-chords are not There will be cases where opinions will differ, and each one must deunder-sixth are hardly less important. Go through almost anything of regard the change as comparatively perman Wagner's or Liszt's, and the prominence of third and sixth relationships The natural place to apply and test these ideas is in the analysis of the ships as having exclusive validity.

ideas and methods some years ago, and have ever since applied them 
It is too late to deny Wagner his place among great masters of har in my harmony teaching, both in the writing of exercises and in analysis and the most to usely wagner ms pince among great massers of nar-in my harmony teaching, both in the writing of exercises and in analysis mony. Henceforth, theory which would not be a falf century hehind the time must explain Wagner's practice; must demonstrate the validity

of the tonic chord may also be first, third or fifth of an underchord : so that, allowing for duplicates, there are six underchords primarily related

The following table exhibits this clearly :a. Over-Chords of the b. Under-Chords Related to C+1 1. Through C. 2. Through E. 3. Through G. C+ OC OE OR COELOGICOR COGLICORIOR E A PF- C+ G+ E- A-

period belonged to the original key. Under this way of looking at key, primarily related to it. Since there are only twelve overchords and twelve underchords in the whole tonal system (counting, of course, en-But how about modern harmony? There were passages in Beethoven, harmonic chords as identical), there will be numerous duplicates, and all in Schubert, in Schumann, in Chopin, which were extremely puzzling, if the chords not primarily related to C+ will be secondarily related to it; we have to look on every chord foreign to the scale as introducing a more i.e., the relation will be as close as is that of the chord A-F-D, which or less decided change of key. But Wagner! What was to be done with belongs in the scale. And what is true of C+ is, of course, true of every such an arch-heretic? On what rational grounds could we account for a other chord used as a tonic, whether it be an overchord or an underchord. continuous succession of chords, hardly any two of which were to be Each and every chord of the whole chromatic scale is a component of found in the same scale? Abuse him, of course. Call him names. Say that each and every key, whether overkey or underkey. The question of key, I he had no fixed key from one end of an opera to another. Deny his har repeat, is not one of what chords are used, but of how they are used; it is

eemed to find Wagner's successions of chords just as satisfactory as any clusive than the old one, that much that we have formerly looked on as more a settled keynote, in the ordinary sense of key, than Wagner himself. for example, the mere introduction of the chord d-f#-a-c in the key of The solution of the puzzle is really very simple, and for it we are in C does not necessarily involve a change of tonic to G+; it may merely contain a "transient modulation" into D minor :-



Whereas we have simply, 1. Tonic; 2. Overchord of the oversixth; 3. Underchord of the oversixth; 4. Dominant seventh; 5. Tonic.

the only ones primarily related to the tonic. In the practice of the comcide for himself whether a given passage is more easily intelligible when posers on whose works current theory is mainly based, these two chords looked on as helenging to the original key or as related to a new tonic. hold unquestioned supremacy. But even Beethoven and Schubert began But, in general, the new idea of key will so modify our conception of to divine the significance and close relationship of the chords of the over modulation, that we shall find fewer cases which we must regard as real of diffuse the significant and cover closes shadow the charges of the work of the work of the charges of the work relationship equally close and intimate. The chords of the over- and length of time; where the centre of gravity is so shifted that we must

will be surprising to any one who has heretofore looked on fifth relation-harmonies of Wagner and Liszt. Whoever will do this will find them sources of real enlightenment.

### CURRENT CHATS.

Tre reading over the article in December's issue, by the service of the same than the wholes are repeated than the wholes the same than the wholes are repeated than the wholes are repeated than the wholes are same to same than the same than the same than the wholes are repeated to same the same than the wholes. And the same than the wholes are repeated to same than the same than the wholes are repeated to same than the same than the wholes are repeated to same than the same than the wholes are repeated to same than the same than two inventions—labor and hime-saving, started out on a long and prosperous voyage of use-

the Tuning daily andies. He has since remarked that he inventors only of the technical and techniphone will not only go to the seventh Hawvan and exheit phone will not only go to the seventh Hawvan and the third femine, but will war an especial crown of glory as their reward on the group that the same produced in the properties of the same power and shakespeare, or—if he read so power and shakespeare, or—if he read to the bible, Homer and Shakespeare, or—if he read to the bible, the state of the bible of the same points in the read to the bible of the same and the

second-hand, and many a young musician is nothing but a bundle of reflected opinions. So, I say with Mr. Mathews, study music itself.

twentions—into a long and properous voyage of use fulness.

In its related ont on a long and properous voyage of use fulness.

To NEW JERSEY MUSICIANS AND TEACHERS, and the state of the technique of the techniq

### [For THE ETUDE.] WHYS AND WHEREFORES OF

nected with the keys. When the key falls the damper

THE ETUDE.

| Comment of shall has dealines reported by specification produced as regard, the page of the specification of the body and the page of the specification of the body and the page of the page of the specification of the body and the page of the pa

the dominant, but the subdominant. Again, what means this: "Must I find flat dominant for chord's below most?" I cannot make anything of it.

2. This proves that mere dash and execution understand the structure of the flags, so as to bring out the theme or themes into relief, I should suppose a teacher might he dispensed with, except the player be a bad reader, and requires help in that respect—J. H. C. T. C. T

#### GRADED LIST OF CHOICE MUSIC.

GRADE I TO X.

INSTRUCTIVE AND CLASSICAL.

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of the Elves; Heyman. X. 75c. Norwegien Melody; of the Elves; Heyman. X. 75c. Norwegien Melody; of the Melody;

### THE MUSIC TEACHERS' NA-TIONAL ASSOCIATION.

THE COMING MERTING

The Music Teachers' National Association was organized in 1876, and with this year's meeting enters on its second decade.

The Association is now firmly established, and moving Theo. Presser, 1704 Chestnut Street, Philadelphia, Agent. The Association is now firmly established, and moving granully forward on its mission "to broaden the culture To-find the Company of the Comp

topics of present and practical interest may be expected.

The feature of having several divisions of the Association will be continued.

The Public School Music division will be organized buld its School Music division will be organized bull organized buld its school music division will be organized bull o

The Public School Music division will he organizand hold its separate sittings this year for the first tim. The people of Indianapolis have generously undetaken the entire local management of the meeting.

The following local committees have been appointed.

power to command any titlent of the land. The mancial resources for this meeting is assured, with a handsom surplus in the treasury. It now rests with the teacher of this land to make preparations to he at the meeting and identify themselves with the interests of the organi

Particulars regarding the meeting will be announced

rse	Grade I to II. Recreative.
ру	- Twinkling Star Waltz-lu CSt. Croix 8 25
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NEWS OF THE MONTH.

Training of the search, and music as fulling pair all over the children would not be the company of the children would not be the children with the children would not be the childr

### [For THE ETUDE.] "FIRM BUT FLEXIBLE WRIST."

machinery employed in piano-forte playing. Mr. Fred- flexed more; but in order erick Clarke's work on "Die Lehre des einheilitchen that this may not happen, Kunstmittels beim Clavierspiel" is the only technical string 1 hegins to grow treatise with which we are acquainted that gives a com- tense, thus pulling down plete diagramatic description of all the parts of the phy- on the arm and practisical apparatus employed in playing. The majority of cally adding more weight the works give only a description of the hand, and leave to that already placed out the real motive machinery,-the muscles. The hand, npon the arm. The mind and all the hony structures of the fingers, hand, and arm, has failed to concentrate are only the skeleton framework. The real movers of the distribution of nervthis skeleton are the muscles acted upon by the motive ous energy in the right force,-nervous energy. Now, while it is nseful and place, and as a result of necessary to understand this skeleton with its hands of this a certain amount of connection with the muscles, it is of greater importance nervous energy has been 2 to understand the relation, nature, and operation of mns- wasted, hecause unnecle. It is not our purpose, however, to enter into any cessarily used. detailed enumeration and description of the muscles con- It is plain, then, that cerned, nor, in fact, to name any muscles, but simply to tension will not necesshow by the following diagram the working parts and sarily increase in proper general relation of the muscles to them :-

and intensity of nervous energy which it allows to go ine into the application of this principle to the "flexible ber also as an illustration. But still farther, there is a kind of qualitative control that is hard to define, but sharing two fixed points, the ellow point. But suppose we now consider it as having two fixed points, the ellow point. But suppose we now consider it as having two fixed points, the ellow point.



ough armgs, capane of sustaining a heavy weight, but will but control the proper distribution of nervous energy, and so active power of contraction through ners. It is plain that string I need here nothing to do with the butter of the weight on the forearm, and the mind, for the thing to the weight of a person as graceful in motion or the weight of t

possessed of an active power of contraction through nervous energy commanding from the seat of mental activity, so thist, as the weight to be austained increases, the tension of these strings may be increased to a degree sufficient to meet the exigencies of the case. String 2, for example, is capable of supporting, by is own tasion, the weight of the forearm, hand and fingers. No distribution of active nervous energy, to acting a 4, 8 and 10 is necessary. Nor would it he if we were to begin to pile weights or pull increased, the tension of the string as the weight of the forearm, hand and fingers. No distribution of active nervous energy to strings 4, 6, 8 and 10 is necessary. Nor would it he if we were to begin to pile weights or pull increased, the tension of the string 2 could increase in proper proportion. We say "weight or pull increased, the tension of the weight weight were added the tension of 2 would increase. And we also say if tension increased it would do so in proper proportion.

Bight here we have an important principle that lies at the basis of the wall weight to make the string as a constant of the brain, is under mental or rollitional control. This mental control manifests itself in there ways: 1, distributive; 2, quantitative; 3, qualitative. The wind has the power, as far as the so-called voluntary muscular activities are concerned, of distributing nervous energy; on the support of the weight of the work of the weight of the work of the weight of the weight

Phavo students are, in many cases, puzzied by the oftrepeated remark about a "firm but yielding wind." It closes sound rather paradoxical, and not long ago a writer is does sound rather paradoxical, and not long ago a writer in TEB ETURE societies the content of the content intellectual. But the weight which is conceived of as applied to the arm is a live weight, so to speak, of nerrous energy exerted through the muscles I and II, and is applied for the purpose of producing an immediate effect upon the quality and intensity of tone; is, in fact, the channel through which tonal conceptions, with all that they embody of spiritual and intellectual ideals, must add of low. If now the muscles 3 to 10 are cut off, the direct

channel of communication will end with muscles 1 and 11, and the result would he a tone devoid of true 11, and the result would be a tone devoid of true strength, virilly or character,—in other words, a dead tone. It will not do, therefore, to practically without the service of all the mussless; and it splain that if muscle 2 is not used, muscles 4, 6, 8 and 10 cannot support it, and it only remains, therefore, for muscles 3, 6, 7 and 9 to practically form a continuous, very clastic, and yet very firm, band upon which the weight of the arm with the superadded weight of the muscular energy of mus-cles 1 and 11 may rest. If left to their own tension, we have here the means for the most firm and yet most springy, elastic resistance, which would show itself in the quality of tone. If now we wish to add other qualities to our tone, even to harshness, to this elastic support, we may add a certain rigidity of relation of the framework at the joints by tensing the opposing muscles 4, 6, 8 and 10. For it is plain that if both sets of muscles are tensed, the working parta will be drawn firmly and rigidly to-gether, and the free elastic movements of the jointa im-peded or destroyed. In good, plain English, there is a proper time to use this power of withdrawal of nervous energy and an improper time, but it still remains true that this power must precede, because it must be the basis

for any quantitative or qualitative activity.

The psychological bearing of this principle has been referred to, and it is of so much importance that it deserves some treatment. The first and most ohvious fact is this: if the mind cannot withdraw nervous energy from any and every muscle, those co-ordinations of muscular activity necessary to the objectification of certain ideas, if securatly, we have here a number of elastic, but very mands made upon the muscle, but that it may, if the mind brought strings, capable of sustaining a heavy weight, but will but control the proper distribution of nervons energy, possessed of an active power of contractions through mind. It is a control to the proper distribution of nervons energy, and the proper distribution of the proper distri

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